

5481-571

02/05/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Avenue NW
Washington, DC 20460

EPA Reg. Number: 5481-571
Date of Issuance: FEB - 5 2013

Term of Issuance: Unconditional

Name of Pesticide Product: AMV-1018 EP

NOTICE OF PESTICIDE:
 Registration
 Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):
AMVAC Chemical Corporation
4695 MacArthur Court
Suite 1200
Newport Beach, CA 92660

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his/her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA. This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA Registration Number to read, "EPA Reg. No. 5481-571".
3. Submit two (2) copies of the final printed labeling before you release the product for shipment.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Keith A. Matthews, Director,
Biopesticides and Pollution Prevention Division

Date: 05 Feb 2013

EPA Form 8570-6

CONCURRENCES

SYMBOL	7611P	7511P	7511P				
SURNAME	Walsh	Hullis	Matthews				
DATE	2/4/13	2/4/13	05 Feb 13				

EPA Form 1320-1A (1/90)

Printed on Recycled Paper

OFFICIAL FILE COPY

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AMV-1018 EP

FOR USE AS A POTATO SPROUT INHIBITOR

For Indoor Use Only

FOR USE THROUGH FOGGING EQUIPMENT ONLY

Active Ingredient: 3-decen-2-one.....	98.0%
<u>Inert Ingredients.....</u>	<u>2.0%</u>
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See (back) (side) panel for first aid, additional precautionary statements, and directions for use

EPA Reg. No.: 5481-LTR
EPA Est. No.: XXXXX-XXX-XXX

Net Contents: XXXX

Manufactured by:
AMVAC Chemical Corporation
4100 E. Washington Boulevard
Los Angeles, CA 90023 U.S.A.
1-888-462-6822

ACCEPTED
FEB - 5 2013

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for
the pesticide registered under
EPA Reg. No. 5481-571

Batch Code:

FIRST AID	
If on skin	<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.
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 five minutes, then continue rinsing eye. • 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 treatment advice.
EMERGENCY INFORMATION	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:</p> <p>For Medical Emergencies phone:.....1-888-681-4261</p> <p>For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC.....1-800-424-9300</p> <p>For Product Use Information phone : AMVAC.....1-888-462-6822</p>	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes skin irritation and substantial but temporary eye injury. Harmful if inhaled. Do not get on skin or on clothing. Avoid contact with eyes. Avoid breathing vapor.

Personal Protective Equipment (PPE):
Wear coveralls worn over long sleeve shirt and long pants, socks, chemical resistant footwear, chemical-resistant gloves, goggles, face shield, or shielded safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS

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Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

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

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are **not** within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried or dusts have settled. Do not enter the treatment area during the time of application. Do not reenter until the ventilation period is complete. If early reentry is required, the PPE required is coveralls worn over long sleeve shirt and long pants, socks, chemical resistant footwear, chemical-resistant gloves, goggles, face shield, or shielded safety glasses and a respirator.

General: AMV-1018 provides effective long-term sprout control by destroying the growing meristem of sprouting ("peeping") potato tubers and "burning off" sprouts. Further sprouting of potatoes is prevented for 1-3 months depending on variety and storage temperatures.

Use Precautions:

- Do not make applications to potatoes in the field.
- Do not use on seed potatoes. Do not allow the thermal fog to come into contact with or to enter areas used for storage of seed potatoes, potato handling or cutting equipment. Seed potatoes can be safely stored in potato storage which were previously treated with AMV-1018 only after full ventilation and clean out procedures have been followed. The air system including ducts, plenums and the storage building itself must be thoroughly ventilated prior to storing seed potatoes.
- Follow all application equipment manufacturers' use directions.
- Do not enter the treatment area during the time of application. Do not reenter until the ventilation period is complete. If early reentry is required, the PPE required is coveralls worn over long sleeve shirt and long pants, socks, chemical resistant footwear, chemical-resistant gloves, goggles, face shield, or shielded safety glasses and a respirator.

Directions for use

AMV-1018 can effectively leverage the natural dormancy of potatoes when used according to label directions. AMV-1018 is generally used only when the dormancy period has ended. An application should preferably be made when the tubers display "peeping" sprouts but more advanced sprouting can also be treated and controlled (see Sprout Control Programs below). The interval between harvest and the onset of sprouting is dependent on the cultivar and storage temperature.

The preferred method of application is through standard aerosol (thermal fogging) equipment. Thermal fogging provides the most efficacious and consistent sprout control.

Excellent movement of the fog through the potato pile is important for consistent efficacy.

Do not apply more than 16.8 fl oz/ton (0.84 fl oz/cwt) per storage season.

Procedure for Thermal Fogging with AMV-1018:

1. Do not enter the treatment area during the time of application. Do not reenter until the ventilation period is complete. If early reentry is required, the PPE required is coveralls worn over long sleeve shirt and long pants, socks, chemical resistant footwear, chemical-resistant gloves, goggles, face shield, or shielded safety glasses and a respirator.
2. Calculate the quantity of product required based on total tonnage of tubers in storage prior to application.
3. Prepare aerosol/fog generating equipment and insert intake hose into the container with AMV-1018.
4. Configure settings such that the air-ducts are set to re-circulate with adequate pressure to move the fog through the potato pile. Turn off all humidifier units. These steps will ensure good distribution of AMV-1018 inside the storages.
5. Place the exhaust end of the aerosol/fog generator in the center of the air mixing chamber or plenum pointed in the direction of the air flow. Potato storages vary greatly in design and air movement patterns. It is therefore advisable to work with your local custom applicator to ensure accurate applications.
6. Adjust flow rate of AMV-1018 through the equipment to match the appropriate aerosol/fogging temperature. Do not allow the product to dribble out at the injection point.
7. Close off the ventilation system and turn on the fans/re-circulation system.
8. Turn on the fogging equipment and allow the fog into the mixing chamber. Operate the fans to continuously re-circulate the fog through the pile for 24 hours.
9. After recirculation is completed, open the ventilation louvers and allow fresh air to move back into the potato storage unit.

10. Within 3-5 days following application, tubers should exhibit "burnt out" or darkened sprouts.

Sprout Control Programs with AMV-1018:

(a) General Use Directions

AMV-1018 can effectively leverage the natural dormancy of stored potatoes when used according to label directions. Make first application when 75% of tubers show visible signs of sprouting (peeping). Apply AMV-1018 at the rate of 4.20 fl oz. per ton or 0.21 fl oz/cwt. One gallon of AMV-1018 will treat 610 cwt. Reapply AMV-1018 as necessary when tubers show visible signs of re-sprouting. Minimum reapplication interval is 7 days. Potatoes can be removed from storages and shipped 24 hours after ventilation is resumed.

(b) Combinations of AMV-1018 with other Sprout Control Products:

AMV-1018 can be used effectively as part of a program which combines other sprout control products. However, AMV-1018 is effective only after sprouting has commenced and can be used in combination programs such as chlorpropham (CIPC), diisopropyl naphthalene (DIPN) or dimethyl naphthalene (DMN) products. Follow all product label instructions.

(i) AMV-1018 Sprout Control Programs with Chlorpropham (CIPC) or DIPN (Amplify®) or DMN (1,4 Sight®)

During the storage cycle, when sprouting is observed on tubers where CIPC, or DIPN or DMN applications were made earlier, these can be treated with AMV-1018 to burn off the sprouts. The best timing of application is when at least 75% of the tubers show visible signs of sprouting ("peeping"). Alternatively, CIPC, DIPN or DMN and AMV-1018 can also be applied sequentially on the same day, when visible sprouting is observed. Either product may be applied first, immediately followed by the other product or co-injected into the fogging equipment. Follow all use directions and product precautions.

(ii) AMV-1018 Sprout Control Programs with Maleic hydrazide (Royal MH-30®):

At dormancy break, potatoes treated with Royal MH-30 prior to harvest can be treated with AMV-1018 later in storage to further extend the sprout-free period of tubers. Depending on storage temperature and potato variety, an additional 1-3 months of sprout control may be achieved. Make additional applications as needed.

(c) Sprout Control in Potatoes undergoing Reconditioning:

When stored at low temperatures, reducing sugars increase in tubers and affects the fry quality of potatoes. Such tubers can be reconditioned by raising the storage temperature leading to lower reducing sugar content. Such conditions, however, favor sprouting. AMV-1018 can be used effectively to burn off sprouts

during the reconditioning phase, or even just prior to shipment. For best results, do not allow potato sprouts to exceed 1 inch (2.5 cm) at the time of treatment.

(d) Rescue of Storage Potatoes with Excessive Sprouting: In cases where storage conditions lead to undesirable sprouting, especially during late in the storage cycle, AMV-1018 can be effectively used to "burn off" sprouts which are up to 1 inch (2.5cm). Apply AMV1018 at the rate of 4.2 fl oz per ton (0.21 fl oz per cwt).

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in cool dry area.

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

Container Handling: [For containers less than 30 gallons] (Nonrefillable Container. Do not reuse or refill this container. Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.)

[For containers equal to or greater than 30 gallons] (Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.)

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and upon reports of field experience. Tests have not been made on all varieties of potatoes, or in all states or under all conditions.

THERE ARE NO WARRANTIES OTHER THAN THOSE EXPRESSLY SET FORTH HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WITHOUT

LIMITATION, THOSE OF MERCHANTABILITY. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. TO THE EXTENT PERMITTED BY WITH APPLICABLE LAW MANUFACTURER OR SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

Amplify® is a registered trademark of Aceto Corporation, NY
1,4 Sight® is a registered trademark of 1,4 Sight Group, ID
Royal MH-30® is a registered trademark of Chemtura Crop Protection, CT