

# DEADLINE<sup>®</sup> M-Ps<sup>™</sup>

For control of snails and slugs around ornamentals, listed small fruits and berries, citrus, corn, hops, soybean, listed vegetable crops, and grass grown for seed.

**ACTIVE INGREDIENT:**

Metaldehyde (2,4,6,8-Tetramethyl- 1,3,5,7-Tetraoxycyclo-octane)..... 4.0%

**INERT INGREDIENTS:**..... 96.0%

**TOTAL:** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION - CUIDADO**

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

<b>FIRST AID</b>	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or ambulance, then give artificial respiration, preferable mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

## EMERGENCY INFORMATION

Seek medical care as soon as possible after exposure. For incidents involving animals, seek veterinary care as soon as possible after exposure. **Have the product container or label with you when calling a poison control center or doctor or veterinarian, or going for treatment.**

### FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:

For Medical Emergencies phone:.....1-888-681-4261

For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC® .....1-800-424-9300

For Product Use Information phone: AMVAC® .....1-888-462-6822

**Metaldehyde is a systemic toxin. There is no antidote. The following instructions are not intended for laypeople. There is no home treatment. Exposed individuals and animals should receive emergency care as quickly as possible.**

**NOTE TO PHYSICIAN:** Dust inhalation is usual route of accidental exposure; the product is rarely ingested. Treatment is symptomatic and supportive. Monitor severe exposures closely: seizures, electrolyte imbalances, acidosis, dehydration, and increased body temperature have been reported.

**NOTE TO VETERINARIAN:** Animals typically are exposed via ingestion. Treatment is symptomatic and supportive. If significant ingestion is suspected, and the animal is asymptomatic, consider induction of emesis or gastric lavage and administration of activated charcoal, cathartic and enema to limit absorption. Monitor asymptomatic and symptomatic animals closely. Treat seizures, electrolyte imbalances, acidosis, dehydration, and increased body temperature. Monitor liver function post recovery.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-507

EPA Est. No.

Net Contents:

As Marked on Container



Manufactured by:

AMVAC Chemical Corporation  
4695 MacArthur Court, Suite 1200  
Newport Beach, CA 92660 U.S.A.  
1-888-462-6822

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**IMPORTANT:** This product can be harmful to children and fatal to domestic animals when ingested. Children and dogs may be attracted to the product. Application of this product is prohibited unless children and domestic animals can be excluded from the treated area from the start of the application until applied material is no longer visible.

**CAUTION:** Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust.

### Personal Protective Equipment (PPE)

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves made out of: barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, natural rubber  $\geq 14$  mils, polyethylene, polyvinyl chloride  $\geq 14$  mils, or Viton<sup>®</sup>  $\geq 14$  mils

### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### Engineering Controls

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(CFR 40 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product.
- Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to mollusks (e.g., clams, oysters, scallops, mussels). Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate. This pesticide is toxic to birds and mammals. Granules on soil surface may be hazardous to terrestrial wildlife. Cover or collect any such materials spilled during loading.

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### DIRECTIONS FOR USE

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It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

This product is intended solely for use on agricultural crops grown for commercial or research purposes, and in State and/or Federal invasive mollusk eradication operations. This product may not be applied to residential sites (i.e., in yards, gardens, around homes and apartments) and other sites such as the exterior areas around schools and daycare facilities, and athletic fields, playgrounds, parks, recreation areas, etc. unless specified for use in State and/or Federal invasive mollusk eradication operations.

Broadcast applications and applications of this product directed to plant parts are prohibited except to grass grown for seed, forage or hay, taro, corn, soybean, clover grown for seed and wheat and as specified for use in State and/or Federal invasive mollusk eradication operations.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made out of: barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, natural rubber  $\geq$  14 mils, polyethylene, polyvinyl chloride  $\geq$  14 mils, or Viton<sup>®</sup>  $\geq$  14 mils

#### **For State and/or Federal Invasive Mollusk Eradication Operations**

This product may be used only on the following use-sites in response to State and/or Federal invasive mollusk eradication operations.

Broadcast applications of this product may be made to the following use-sites for State and/or Federal invasive mollusk eradication operations: fallow land; barrier strips; uncultivated non-agricultural areas; recreational areas; non-food or non-feed brush; weed or dense vegetative areas; railroad, pipeline, highway, power and telephone rights of way and roadsides; guardrails and fences; lumberyards; storage areas; seaports; industrial facility sites, including yards and walkways around industrial buildings, parking areas, parks, golf courses, other public areas; and airport and similar industrial non-crop areas.

This product may be applied for State and/or Federal invasive mollusk eradication operations at an individual application rate of no more than 2 lb. a.i./A (50 lbs. Deadline M-Ps per acre) and at no more than six applications/year. After applying this product for invasive mollusk eradication, do not reapply this product or other products containing metaldehyde to treated areas for 7 days.

#### **RESTRICTIONS**

- This product is intended solely for use on agricultural crops grown for commercial or research purposes, and in State and/or Federal invasive mollusk eradication operations.
- This product may not be applied to residential sites (i.e., in yards, gardens, around homes and apartments) and other sites such as the exterior areas around schools and daycare facilities, and athletic fields, playgrounds, parks, recreation areas, etc. unless specified for use in State and/or Federal invasive mollusk eradication operations.
- Wide area broadcast applications and applications of this product directed to edible portions of the plant are prohibited except to grass grown for seed, forage and hay, taro, corn, soybean, clover grown for seed and wheat and as specified for use in State and Federal invasive mollusk eradication operations.

- Apply by hand or with commercial application equipment designed for banded application of granular products except to grass grown for seed, forage and hay, taro, corn, soybean, clover grown for seed and wheat and as specified for use in State and Federal invasive mollusk eradication operations.
- For artichokes, beans, berries, ginseng, hops, mint, peas, ornamental plants, strawberries, tomatoes and vegetables: apply in band between rows and/or directed towards base of the plants. Do not apply as wide-area broadcast.
- Do not allow bait pellets to come in contact with edible portions of the plant except to grass grown for seed, forage or hay, taro, corn, soybean, clover grown for seed and wheat and as specified for use in State and Federal invasive mollusk eradication operations.
- Use only as a baiting treatment to be applied directly to the soil area beneath listed plants except to grass grown for seed, forage and hay, taro, corn, soybean, clover grown for seed, and wheat and as specified for use in State and Federal invasive mollusk eradication operations.
- Read entire label before using.
- Do not re-water for 48 hours after application.
- Apply any time of day, but evening applications are preferred.
- Do not use in or around Hanalei, Kaua'i (USFW Refuge).
- Do not mix with any seeds prior to application.
- Areas treated with metaldehyde may be replanted immediately with crops registered for use on this label. Do not plant any crop not listed on this label in the treated area for at least 30 days after the last treatment with metaldehyde.

#### **Advisory Resistance Management for Molluscicides**

For resistance management, this product contains metaldehyde, a systemic molluscicide that eliminates pest by destroying the mucus-producing glands of mollusks resulting in dehydration. Naturally occurring biotypes resistant to metaldehyde-based baits may still develop and become dominant after repeated use. Appropriate resistance-management strategies should be followed.

The following steps can be used to delay the development of resistance:

- Rotate pest control methods when possible
- Use this product strictly in accordance with the label. Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with the manufacturer, your local university specialist or certified pest control advisor.
- If a pest population continues to persist after treatment with this product, discontinue use of this product, and switch to another management strategy, if available.
- If pest resistance is observed or suspected, please report to AMVAC Chemical Corporation at 1-888-462-6822.

#### **APPLICATIONS**

Apply as a soil surface treatment. Apply around the crops listed below per application methods specified per crop type to protect from slugs and snails.

Apply this product in areas likely to be infested at the beginning of the planting season before damage occurs and during periods of damp weather. The maximum number of applications allowed per season are listed below with each crop. For best results, apply in evening. For best results apply following rain or irrigation since slugs and snails will not crawl over dry soil.

Prior experience has shown most plants are not sensitive to this product. However, for extremely tender plants such as orchids, it is suggested to do a small test application to determine any plant sensitivity before making applications to plants.

**Table I.** For Clover grown for seed: Apply as a perimeter treatment at planting and then for the subsequent applications by broadcast, directing the product to the soil. (Not for use in California)

- For Clover, forage and hay: Apply as a perimeter treatment.
- For Citrus: Apply in band under canopy by hand or with commercial application equipment designed for banded application of granular products.
- For all other uses in Table I: Apply in a band, between borders, and around perimeter of crop by hand or with commercial application equipment designed for banded application of pelleted products.

Crop	Maximum Single Application Rate (lbs. Product/A)	Maximum Application Pellets per square foot	Maximum number of applications per season	Re-application Interval (days)	Preharvest Interval (PHI) (days)
Artichokes (Perennial)	25	29	6	18	0
Artichokes (Annual)	25	29	2	18	0
Beet (garden, garden leaves) Only for use in Pacific Northwest (Oregon, Washington & Idaho)	25	29	2	14	30
Berries <sup>1</sup>	20	23	3	14	0
Celery, Rhubarb, Swiss chard, Chinese Celery, Celtuce, Cardoon, and Florence Fennel	25	29	4	21	1
Citrus	25	29	6	14	0
Clover (Seed Crop) Not for use in California	20	23	2	10	0
Clover (Forage and Hay) Only for use in Pacific Northwest (Oregon, Washington & Idaho)	20	23	2	10	30
Ginseng	25	29	6	21	21
Hops Only for use in Pacific Northwest (Oregon, Washington & Idaho)	25	29	4	14	60

Crop	Maximum Single Application Rate (lbs. Product/A)	Maximum Application Pellets per square foot	Maximum number of applications per season	Re-application Interval (days)	Preharvest Interval (PHI) (days)
Lettuce, Cole Crops, and the following Leafy Greens (Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Cavalo, Broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Spinach, Rape Greens).	25	29	3	14	0
Mint (Peppermint, Spearmint and their Oils)	25	29	4	21	1
Ornamental Plants <sup>2</sup>	25	29	6	21	0
Peas and Bean	25	29	3	7	See footnote <sup>3</sup>
Peas and Bean (Forage and Hay)	25	29	3	7	1
Prickly Pear Cactus	20	23	3	30	0
Rutabaga Only for use in Pacific Northwest (Oregon, Washington & Idaho)	25	29	2	14	40
Strawberries	25	29	3	14	0
Tomatoes	25	29	3	14	0
Turnip (root and tops) Only for use in Pacific Northwest (Oregon, Washington & Idaho)	25	29	2	14	20
<sup>1</sup> Caneberries (Bingleberry; Raspberry, Red and Black; Wild Raspberry; Blackberry; Loganberry; Boysenberry, Dewberry; Lowberry; Marionberry; Olallieberry; Youngberry; Bushberries (Aronia Berry; Blueberry; Buffalo Currant; Chilean Guava; Currant; Black and Red; Elderberry; European Barberry; Gooseberry; Cranberry; Honeysuckle; Huckleberry; Jostaberry; Juneberry; Lingonberry; Salal; Sea Buckthorn; Berry - low growing (Bearberry; Bilberry; Blueberry; Cloudberry; Cranberry; Muntries; Partridgeberry). <sup>2</sup> Including Ornamentals in greenhouses, hoopouses, and other indoor ornamentals production facilities, as well as outdoor commercial production of ornamental plants. <sup>3</sup> All applications should be made prior to bloom.					

**Table II.** For Corn and Soybean apply as a perimeter treatment at planting and then for the subsequent applications by broadcast, directing the product to the soil.

Crop	Growth Stage <sup>1</sup>	Maximum Single Application Rate (lbs. Product/A)	Maximum Application Pellets per square foot	Maximum number of applications per season	Re-application Interval (days)	Preharvest Interval (PHI) (days)	Application Information
Corn (field)	Up to V8	25	29	3	7	0	Perimeter treatment prior to Broadcast
Corn (field)	V-8 - VT	25	29	3	7	0	Ground directed only
Soybean <sup>2</sup>	Up to V4	10	11	3	7	0	Perimeter treatment prior to Broadcast
Soybean <sup>2</sup>	V4 - R1	10	11	3	7	0	Ground directed only

<sup>1</sup>Growth stages are according to the Iowa State University Crop Guides:

Corn - <https://www.ipm.iastate.edu/files/03%20Corn%20Growth%20and%20Development.pdf>

Soybeans - [https://crops.extension.iastate.edu/soybean/production\\_growthstages.html](https://crops.extension.iastate.edu/soybean/production_growthstages.html)

<sup>2</sup>Only for use in the following states: Alabama, Arkansas, Connecticut, Delaware, Georgia, Louisiana, Maine, Maryland, Massachusetts, Mississippi, North Carolina, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia. Livestock may not graze in the treated fields. Applications must be completed prior to pod formation.

**Table III.** For Grass grown for seed, forage or hay, taro and wheat: Apply in broadcast application, directing product to soil.

Crop	Maximum Single Application Rate (lbs. Product/A)	Maximum Application Pellets per square foot	Maximum number of applications per season	Re-application Interval (days)	Preharvest Interval (PHI) (days)
Grass (grown for seed)	20	23	4	21	21
Grass (Forage and Hay)	20	23	4	14	21
Taro (wetland) <sup>1</sup>	25	29	7	35	7
Wheat, (forage, grain, hay, straw) For use only in the Pacific Northwest (Oregon, Washington & Idaho)	25	29	2	14	See Footnote <sup>2</sup>

<sup>1</sup>Broadcast application to be made under flooded conditions only. Prior to bait application, stop the water flow into and out of the lo'i (paddies) to be treated; water level should be high enough such that apple snails don't estivate. Apply the bait and hold/impound the water for a minimum of 3 days before allowing water to



exit the lo'i. Do not apply more than one application per held/impounded water. If the water level in the lo'i becomes too low within the 3 day holding period (due to faster percolation of water through the soil), such that apple snails begin to estivate, allow additional water into the lo'i.

<sup>2</sup>All applications should be made prior to formation of seed head.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** This product can be harmful to children and fatal to dogs and other domestic animals if ingested. Dogs have been known to ingest metaldehyde after opening or tearing the packaging. Store this product in its original packaging, in a cool, secure location, and out of reach of children or pets.

**Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. When completely empty, offer for recycling, if available or then dispose of empty bag in a sanitary landfill, or by incineration.

### LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; and (b) 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 to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions. THIS WARRANTY DOES NOT EXTEND TO THE USE OF THIS PRODUCT CONTRARY TO LABEL INSTRUCTIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE.

**THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE 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 OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. 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 TORT, 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 CONSISTENT 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.**

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