

5481-91

08/31/2011

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



OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

AUG 31 2011

Julie Porter  
Regulatory Specialist  
AMVAC  
4695 MacArthur Court, Suite 1250  
Newport Beach, CA 92660

Subject: Durham Metaldehyde Granules 3.5  
EPA Reg. No. 5481-91  
Notification Application Dated August 22, 2011

Dear Ms. Porter:

The Agency has received your Application for Pesticide Notification under Pesticide Registration Notices (PRN) 98-10, dated August 22, 2011, for the product Durham Metaldehyde Granules 3.5, EPA Reg. No. 5481-91. The Registration Division (RD) has reviewed this request and finds that the actions requested fall within the scopes of PR Notice 98-10. The information submitted with the application has been stamped "Notification" and will be placed in our records.

Please note that additional label corrections may be needed pending review of your responses to the Metaldehyde RED.

If you have any questions, please call me directly at (703) 308-8043 or email [lewis.marianne@epa.gov](mailto:lewis.marianne@epa.gov)

Sincerely,

A handwritten signature in black ink that reads "Marianne Lewis". The signature is fluid and cursive.

Marianne Lewis  
Insecticide-Rodenticide Branch  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
Environmental Protection Agency  
Washington, DC 20460

- Registration  
 Amendment  
 Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 5481-91		2. EPA Product Manager Venus Eagle		3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted	
4. Company/Product (Name) Durham Metaldehyde Granules 3.5		PM#			
5. Name and Address of Applicant (Include Zip Code) AMVAC Chemical Corporation 4695 MacArthur Court, Suite 1250 Newport Beach, CA 92660 <input type="checkbox"/> Check if this is a new address			6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____  Product Name _____		

**Section - II**

- Amendment - Explain below  Final printed labels in response to Agency letter dated \_\_\_\_\_  
 Resubmission in response to Agency letter dated \_\_\_\_\_  "Me Too" Application  
 Notification - Explain below  Other - Explain below

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wt.	No. per container	If "Yes" Package wt.	No. per container	<input type="checkbox"/> Glass
					<input type="checkbox"/> Paper
					<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithographed <input type="checkbox"/> Paper glued			<input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____		

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Julie Porter	Title Regulatory Specialist	Telephone No. (Include Area Code) 949-221-5104
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		8. Date Application Received (Stamped)  _____ _____ _____
2. Signature 	3. Title Regulatory Specialist	
4. Typed Name Julie Porter	5. Date 22-August-2011	



22 August 2011

Ms. Venus Eagle  
Product Registration Branch  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard,  
2777 S. Crystal Drive  
Arlington, VA 22202

**Subject:      Label Notification – Metaldehyde Products**  
**PR Notice 2007-4 : Update Disposal Statement**  
**Durham Metaldehyde 3.5 (EPA Reg. No. 5481-91)**  
**Durham Metaldehyde 7.5 (EPA Reg. No. 5481-103)**  
**Deadline Bullets (EPA Reg. No. 5481-507)**  
**Deadline M-Ps (EPA Reg. No. 5481-511)**

Dear Ms. Eagle:

This notification submission is in response to the PR Notice 2007-4 to update our disposal statements in our Metaldehyde subject products. For your reference, AMVAC has different pending labels in review at the EPA regarding the RED PSDCI and we are currently waiting for the acceptance of these labels. In the meantime, we are submitting these notification labels to cooperate with the deadlines required.

Enclosed please find the following submitted for each subject product:

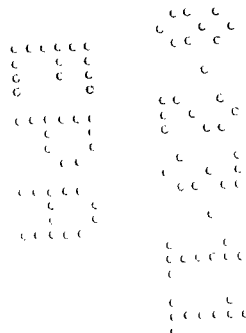
- Application Form 5470-1
- Notification Label (One copy)
- Redline Label viewing changes (One copy)

It is my understanding this submission contains all necessary elements for a Label Notification submission. However, if you require additional information, please don't hesitate to contact me at 949-221-6104, or email [juliep@amvac-chemical.com](mailto:juliep@amvac-chemical.com). Thank you for your consideration.

Best regards,

Julie Porter  
AMVAC Chemical Corporation  
Regulatory Specialist  
(949)221-6104

CC: Bonnie Adler – Chemical Review Manager



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NOTIFICATION

AUG 3 1 2011

# DURHAM<sup>®</sup> METALDEHYDE GRANULES 3.5

A SOIL SURFACE TREATMENT FOR CONTROL OF SNAILS AND SLUGS IN FIELD CROPS - DICHONDRA & TURFGRASS LAWNS - ORNAMENTAL PLANTS & GREENHOUSES - SEED CROPS - SMALL FRUITS & BERRIES - TREE CROPS - VEGETABLE CROPS & GARDENS

**ACTIVE INGREDIENT:**

Metaldehyde (2,4,6,8-tetramethyl-1,3,5,7-tetraoxycyclo-octane)..... 3.5%

**INERT INGREDIENTS:**..... 96.5%

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

## KEEP OUT OF REACH OF CHILDREN CAUTION

**THIS PESTICIDE MAY BE FATAL TO DOGS OR OTHER PETS IF EATEN.  
KEEP PETS OUT OF TREATED AREAS.**

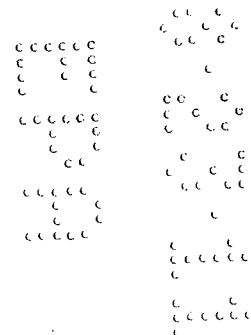
FIRST AID	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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 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>
EMERGENCY INFORMATION	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:	
Transportation: CHEMTREC.....	1-800-424-9300
Other: AMVAC.....	1-323-264-3910

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

EPA Reg. No. 5481-91  
EPA Est. No. 5481-CA-1

Net Weight:  
As Marked on Container

**AMVAC**  
 4100 E. Washington Blvd.  
 Los Angeles, CA 90023 U.S.A  
 1-323-264-3910 • www.amvac-chemical.com



**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DO NOT TAKE INTERNALLY. DO NOT GET IN EYES. DO NOT GET ON SKIN.**

**CAUTION:** May be harmful if swallowed, inhaled, or absorbed through the skin. Do not breathe dust, get in eyes, on skin or on clothing. If poisoning occurs, obtain prompt medical aid. Keep granules away from dogs and pets. Bait may be attractive to dogs. Confine pets during application to prevent them from believing they are being fed.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

**USER SAFETY REQUIREMENTS**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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**

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 washwaters.

**DIRECTIONS FOR USE**

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 indirectly or through drift. Only protected handlers may be in the area during application.

**IMPORTANT:** Read entire label. Use in accordance with precautionary statements and directions, and with applicable Federal and State regulations. **DO NOT APPLY DIRECTLY ONTO PLANTS.** Do not allow bait to contact the edible portion of any food crop.

**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, and 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 (REI). 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 of 12 hours.

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

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements of 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, forest, nurseries, or greenhouses. Confine pets during application to prevent them from believing they are being fed.

**USE PRECAUTIONS**

Read entire label before using. Use only as a baiting treatment to be applied directly to the soil area beneath plants as listed on this label. Do not allow bait granules to come in contact with parts of plant that may be used for food or feed purposes. The grower is responsible for residues on his crops, as well as for damages caused by drift from his property to that of others. Do not allow drift to adjoining food, fiber or pasture crops. NOTE: DURHAM METALDEHYDE GRANULES 3.5 should never be applied to dry soil. Applications should be made following irrigation for best results. Apply any time of the day but evening applications are preferred. Do not re-water for 48 hours after application.

**GENERAL INFORMATION**

Snails and slugs are nocturnal and generally feed during the night damaging many varieties of plants and plant seedlings. They inhabit damp, moist areas around decaying refuse, organic matter, beneath boards, rocks and trash piles and hide at the base of growing plants. Their presence can be detected by the shiny trails left on the soil surface, sidewalks, driveways, etc.

**APPLICATION RATES**

For control of SNAILS and SLUGS in the following areas, use one pound to treat 1,100 to 1,500 sq. ft. of soil surface equivalent to 30 to 40 pounds of granules per acre, unless otherwise noted below. Apply when first plant damage appears or is anticipated and repeat as needed for control.

**FIELD CROPS**

Cereal Grains (Barley, Oats, Wheat), Corn, Legumes (Alfalfa, Beans, Clover, Cowpeas, Peas), Mint: Band application over seed line at planting or slightly later. Repeat applications may be made if needed. Apply up to 20 pounds per acre. Total pounds of formulation applied must not exceed 86 pounds (3 pounds a.i.) per acre per growing season.

**DICHONDRA AND/OR TURFGRASS LAWNS**

Water infested area thoroughly before application. Broadcast DURHAM METALDEHYDE GRANULES 3.5 directly on lawn or turf. Spread evenly. One pound will cover up to 1,500 sq. ft. Do not re-water for 48 hours.

**ORNAMENTAL PLANTS**

ORNAMENTAL GARDENS, PLANTED BORDERS AND GROUND COVERS: Including Azaleas, Begonias, Camellias, Chrysanthemums, Daffodils, Daisies, Geraniums, Honeysuckle, Hydrangeas, Ice Plant, Impatiens, Iris, Marigolds, Pansies, Petunias, Rhododendron, Roses, Sweet Peas, Snapdragons, Spathiphyllum, Tulips. Water the infested area thoroughly before application. Broadcast or sprinkle DURHAM METALDEHYDE GRANULES 3.5 evenly over the infested areas and along edges of flowerbeds adjacent to border or ground cover plants. Also apply on ground at base of fences and walls in shady, protected locations. One pound will cover up to 1,100 sq. ft. Do not re-water for 48 hours.

**ORNAMENTAL GREENHOUSES**

Water or irrigate greenhouse soil to be treated before application. Broadcast DURHAM METALDEHYDE GRANULES 3.5 liberally around greenhouse, under benches in greenhouse and around plants; any place where SNAILS and SLUGS might congregate. Do not apply directly to plants unless prior experience has shown the plant to be tolerant to this product. Most plants are tolerant to DURHAM METALDEHYDE GRANULES 3.5. However, some slight tip burning has been noticed on extremely tender orchids. One pound will cover up to 1,100 sq. ft. Do not re-water for 48 hours. NOTE: This product has proven to have a reasonable residual control. However, for heavily infested greenhouses, a second application is recommended 7 to 10 days following the first application to bring the house under control.

**SEED CROPS**

Legumes (Alfalfa, Beans, Clover, Peas): Apply up to 20 pounds per acre. Total pounds of formulation applied must not exceed 86 pounds (3 pounds a.i.) per acre per growing season.

Beets, Cabbage, Carrots, Collards, Flowers, Grasses, Kale, Kohlrabi, Mustard, Radish, Sugar Beets, Turnips: Apply up to 40 pounds per acre. Total pounds of formulation applied must not exceed 129 pounds (4.5 pounds a.i.) per acre per growing season.

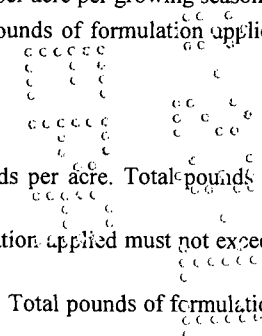
Cauliflower, Lettuce, Spinach, Swiss Chard, Tobacco: Apply up to 40 pounds per acre. Total pounds of formulation applied must not exceed 86 pounds (3 pounds a.i.) per acre per growing season.

**SMALL FRUITS AND BERRIES**

Strawberries: Band application in borders and around perimeter of crop. Apply up to 40 pounds per acre. Total pounds of formulation applied must not exceed 129 pounds (4.5 pounds a.i.) per acre per growing season.

Grapes: Band application between rows. Apply up to 40 pounds per acre. Total pounds of formulation applied must not exceed 129 pounds (4.5 pounds a.i.) per acre per growing season.

Blackberries, Blueberries, Cranberries, Loganberries, Raspberries: Apply up to 40 pounds per acre. Total pounds of formulation applied must not exceed 86 pounds (3 pounds a.i.) per acre per growing season.



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**TREE CROPS**

Broadcast liberally under trees, around irrigation pipes, farm buildings and any other place where SLUGS and SNAILS may congregate.

Citrus (Oranges, Lemons, Grapefruit, etc.): Apply up to 40 pounds per acre. Total pounds of formulation applied must not exceed 214 pounds (7.5 pounds a.i.) per acre per year.

Apples, Apricots, Avocados, Cherries, Peaches, Pears: Apply up to 40 pounds per acre. Total pounds of formulation applied must not exceed 86 pounds (3 pounds a.i.) per acre per year.

**VEGETABLE CROPS AND GARDENS**

Beets, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Garlic, Ginseng, Horseradish, Kale, Kohlrabi, Leeks, Mustard Greens, Onions, Parsnips, Potatoes, Radishes, Rutabagas, Salsify, Shallots, Sweet Potatoes, Turnips: Apply up to 40 pounds per acre. Total pounds of formulation applied must not exceed 129 pounds (4.5 pounds a.i.) per acre per growing season.

Asparagus, Beans, Black-eyed Peas, Cantaloupe, Cucumbers, Eggplant, Endive, Lettuce, Melons, Okra, Peas, Peppers, Pimentos, Pumpkins, Rhubarb, Spinach, Squash, Swiss Chard, Tomatoes, Watermelons: Apply up to 40 pounds per acre. Total pounds of formulation applied must not exceed 86 pounds (3 pounds a.i.) per acre per growing season.

Artichokes: Apply 40 pounds per acre. Total pounds of formulation applied must not exceed 171 pounds (6 pounds a.i.) per acre per year.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store product in original labeled container in a cool, dry, locked place out of the reach of children. Keep container tightly closed when not in use. Do not store in direct sunlight.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** 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, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**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 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.

**THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. 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.**

**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. IN NO EVENT, SHALL MANUFACTURER OR SELLER 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.

Durham® is a registered trademark of AMVAC Chemical Corporation.

AMVAC Chemical Corporation  
4100 E. Washington Blvd.  
Los Angeles, CA 90023 U.S.A.  
1-323-264-3910  
www.amvac-chemical.com

