

62719-490 - 8-14-2008

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms. Kimberly S. Gilbert  
Product Registration  
Dow AgroScience LLC  
9330 Zionsville Road  
Indianapolis, IN 46268

AUG 14 2008

SUBJECT: Application for Pesticide Notification (PRN 98-10 and PRN 2008-1)  
Request General Label Change (Comply with FL Regulations)  
EPA Reg. No. 62719-490  
Application Dated July 7, 2008

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 07/07/08 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number Dow AgroSciences LLC/62719-490	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Dow AgroSciences LLC/MACH 2 Plus Fertilizer (1.33% A.I.)	PM# 10	
5. Name and Address of Applicant (Include ZIP Code) Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268 <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: <b>NOTIFICATION</b> EPA Reg. No. _____ AUG 14 2008 Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

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

This notification is consistent with the provisions of PR Notice 98-10 and PR Notice 2008-1 and EPA regulations at 40 CFR 152.46, 40 CFR 156.10, and 156.80 and no other changes have been made to the labeling or the confidential statement of formula of 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 this notification is not consistent with the terms of PR Notice 98-10 and PR Notice 2008-1 and 40 CFR 152.46, 40 CFR 156.10, and 156.80 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
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
					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"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <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 Kimberly S. Gilbert	Title Regulatory Manager	Telephone No. (include Area Code) (317) 337-4685 / fax: 317-337-4649
<b>Certification</b> 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.		<b>5. Date Application Received (Stamped)</b>    
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Kimberly S. Gilbert (ks Gilbert@dow.com)	5. Date July 7, 2008	

Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268-1054

308/2E  
July 7, 2008



Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

MACH 2 PLUS FERTILIZER (1.33% A.I.) (A.I. HALOFENOZIDE)  
EPA REGISTRATION NUMBER: 62719-490  
NOTIFICATION OF MINOR LABEL CHANGE PER PR NOTICES 98-10 AND 2008-1

Enclosed please find labeling for the notification action of MACH 2<sup>®</sup> Plus Fertilizer (1.33% A.I.) specialty insecticide. The following changes have been made by notification:

Sub Label A

1. Sale copy: To comply with Florida fertilizer law 5E-1.003, added "Covers up to XX,000 sq ft (XXX' x XX') and/or This bag covers XX,000 sq ft."
2. Turfgrass: To comply with Florida fertilizer law 5E-1.003, added new bullet point to be included for those products registered in the state of Florida.

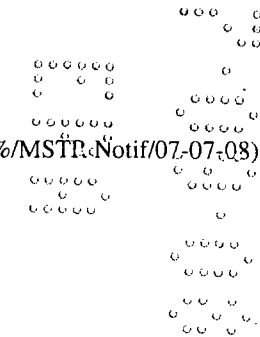
Sub Label B

3. Sale copy: To comply with Florida fertilizer law 5E-1.003, added (1) "In the state of Florida, do not apply near water. . . onto your lawn/garden."; (2) "Covers up to XX,000 sq ft (XXX' x XX') and/or This bag covers XX,000 sq ft."
4. Environmental Hazards: Per PR Notice 2008-1, revised statement.
5. Turfgrass: To comply with Florida fertilizer law 5E-1.003, added new bullet point to be included for those products registered in the state of Florida.

This notification is consistent with the provisions of PR Notice 98-10 and PR Notice 2008-1 and EPA regulations at 40 CFR 152.46, 40 CFR 156.10, and 156.80 and no other changes have been made to the labeling or the confidential statement of formula of 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 this notification is not consistent with the terms of PR Notice 98-10 and PR Notice 2008-1 and 40 CFR 152.46, 40 CFR 156.10, and 156.80 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.

Contents of Submission

- Transmittal document (this letter)
- Application for Pesticide, EPA Form 8570-1
- Label entitled MACH 2 Plus Fertilizer (1.33% A.I.) (E3B/MACH 2 Plus Fert 1.33%/MSTR:Notif/07-07;08) (31 Pages plus Registration Notes) (5 Copies)





E3B / MACH 2 Plus Fert 1.33% / MSTR Notif / 07-07-08  
file: MACH 2 Plus Fert 1.33%-490 MSTR 07Jul08N.doc

# MACH 2<sup>®</sup> Plus Fertilizer (1.33% A.I.)

EPA Reg. No. 62719-490

Alternate Brand Name: MACH 2 Plus Fertilizer-OTC (1.33% A.I.)

**The master label for MACH 2 Plus Fertilizer (1.33% A.I.) consists of separate, self-contained sub labels for professional use and residential use, respectively.**

## Registration Notes:

**Source label text** based on EPA-accepted copy dated April 25, 2005 and notifications coded "E3B / MACH 2 Plus Fert 1.33% / MSTR Notif / 05-25-07," "E3B / MACH 2 Plus Fert 1.33% / MSTR Notif / 09-10-07" and "E3B / MACH 2 Plus Fert 1.33% / MSTR Notif / 10-03-07."

### Changes by notification:

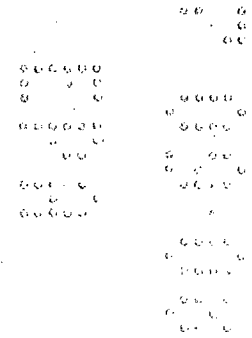
#### Sub Label A

1. Sale copy: To comply with Florida fertilizer law 5E-1.003, added "Covers up to XX,000 sq ft (XXX' x XX') and/or This bag covers XX,000 sq ft."
2. Turfgrass: To comply with Florida fertilizer law 5E-1.003, added new bullet point to be included for those products registered in the state of Florida.

#### Sub Label B

3. Sale copy: To comply with Florida fertilizer law 5E-1.003, added (1) "In the state of Florida, do not apply near water. . . onto your lawn/garden."; (2) "Covers up to XX,000 sq ft (XXX' x XX') and/or This bag covers XX,000 sq ft."
4. Environmental Hazards: Per PR Notice 2008-1, revised statement.
5. Turfgrass: To comply with Florida fertilizer law 5E-1.003, added new bullet point to be included for those products registered in the state of Florida.

®Trademark of Dow AgroSciences LLC



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**NOTIFICATION**

**AUG 14 2008**

**[Sub Label A: Professional Use]**

(Base label for rigid containers 5 gal or less):

**MACH 2<sup>®</sup> Plus Fertilizer (1.33% A.I.)**

**Specialty Insecticide**

**For control of immature stages of certain insects in turfgrass**

**Not for Sale or Use in Nassau and Suffolk Counties, New York. New York State Requires This Product be Used Only by Professional Applicators.**

**Covers up to XX,000 sq ft (XXX' x XX')**  
and/or

**This bag covers XX,000 sq ft**

**Active Ingredient:**

halofenozide: Benzoic acid, 4-chloro-,  
2-benzoyl-2-(1,1-dimethylethyl) hydrazide ..... 1.33%

Other Ingredients ..... 98.67%

Total ..... 100.00%

<b>Guaranteed Analysis<sup>†</sup></b>	
Total Nitrogen (N) .....	XX%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	XX%
Soluble Potash (K <sub>2</sub> O) .....	XX%
Primary plant foods derived from . . . [Manufacturer should list sources of NPK, e.g., urea, diammonium phosphate, and muriate of potash].	

[<sup>†</sup>Editor's note: Guaranteed analysis will vary and will be determined by the manufacturer.]

**Keep Out of Reach of Children**

**CAUTION      PRECAUCION**

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.)

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**Precautionary Statements**

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**Hazard to Humans and Domestic Animals**

**Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin**

**Avoid contact with skin, eyes or clothing.**

**Personal Protective Equipment (PPE)**

**WPS USES:** Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) - in general, agricultural plant uses are covered - must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

### Engineering Controls

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

**NON-WPS USES:** Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR part 170) - in general, only agricultural plant uses are covered by the WPS - must wear:

- Shirt and pants
- Gloves
- Shoes plus socks

### 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.

### First Aid

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

For terrestrial uses, 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 cleaning equipment or disposing of equipment washwaters.

This chemical has the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

### Storage and Disposal

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

**Pesticide Storage:** Store in a cool, dry, well-ventilated area. Prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children.

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

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refer to label booklet for Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

**Store in a Dry Place**

EPA Reg. No. 62719-490

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268**

**Net Weight** \_\_\_\_\_



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(Base label for nonrigid containers any size):

# MACH 2<sup>®</sup> Plus Fertilizer (1.33% A.I.)

## Specialty Insecticide

**For control of immature stages of certain insects in turfgrass**

**Not for Sale or Use in Nassau and Suffolk Counties, New York. New York State Requires This Product be Used Only by Professional Applicators.**

Covers up to XX,000 sq ft (XXX' x XX')  
and/or

**This bag covers XX,000 sq ft**

Active Ingredient:

halofenozide: Benzoic acid, 4-chloro-,  
2-benzoyl-2-(1,1-dimethylethyl) hydrazide ..... 1.33%

Other Ingredients ..... 98.67%

Total ..... 100.00%

### Guaranteed Analysis †

Total Nitrogen (N) ..... XX%

Available Phosphoric Acid (P<sub>2</sub>O<sub>5</sub>) ..... XX%

Soluble Potash (K<sub>2</sub>O) ..... XX%

Primary plant foods derived from . . . [Manufacturer should list sources of NPK, e.g., urea, diammonium phosphate, and muriate of potash].

[†Editor's note: Guaranteed analysis will vary and will be determined by the manufacturer.]

**Keep Out of Reach of Children**

## CAUTION      PRECAUTION

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.)

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### Precautionary Statements

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#### Hazard to Humans and Domestic Animals

**Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin**

**Avoid contact with skin, eyes or clothing.**

#### Personal Protective Equipment (PPE)

**WPS USES:** Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) - in general, agricultural plant uses are covered - must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

### Engineering Controls

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

**NON-WPS USES:** Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR part 170) - in general, only agricultural plant uses are covered by the WPS - must wear:

- Shirt and pants
- Gloves
- Shoes plus socks

### 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.

### First Aid

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

For terrestrial uses, 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 cleaning equipment or disposing of equipment washwaters.

This chemical has the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

### Storage and Disposal

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

**Pesticide Storage:** Store in a cool, dry, well-ventilated area. Prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children.

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

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Refer to label booklet for Directions for Use.

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

**Store in a Dry Place**

EPA Reg. No. 62719-490

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268**

**Net Weight** \_\_\_\_\_

(Base label for refillable rigid containers greater than 5 gal):

# MACH 2<sup>®</sup> Plus Fertilizer (1.33% A.I.)

## Specialty Insecticide

**For control of immature stages of certain insects in turfgrass**

**Not for Sale or Use in Nassau and Suffolk Counties, New York. New York State Requires This Product be Used Only by Professional Applicators.**

Covers up to XX,000 sq ft (XXX' x XX')  
and/or

**This bag covers XX,000 sq ft**

Active Ingredient:

- halofenozide: Benzoic acid, 4-chloro-,  
2-benzoyl-2-(1,1-dimethylethyl) hydrazide..... 1.33%
- Other Ingredients ..... 98.67%
- Total..... 100.00%

### Guaranteed Analysis †

Total Nitrogen (N) .....	XX%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	XX%
Soluble Potash (K <sub>2</sub> O) .....	XX%

Primary plant foods derived from . . . [Manufacturer should list sources of NPK, e.g., urea, diammonium phosphate, and muriate of potash].

[†Editor's note: Guaranteed analysis will vary and will be determined by the manufacturer.]

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### Precautionary Statements

#### Hazard to Humans and Domestic Animals

**Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin**

**Avoid contact with skin, eyes or clothing.**

#### Personal Protective Equipment (PPE)

**WPS USES:** Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) - in general, agricultural plant uses are covered - must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

### Engineering Controls

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

**NON-WPS USES:** Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR part 170) - in general, only agricultural plant uses are covered by the WPS - must wear:

- Shirt and pants
- Gloves
- Shoes plus socks

### 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.

### First Aid

**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.

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This chemical has the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

### Storage and Disposal

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

**Pesticide Storage:** Store in a cool, dry, well-ventilated area. Prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children.

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

**Container Reuse:** 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 and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**Refer to label booklet for Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

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**Store in a Dry Place**

EPA Reg. No. 62719-490

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268**

**Net Weight** \_\_\_\_\_

(Base label for nonrefillable rigid containers larger than 5 gal):

# MACH 2<sup>®</sup> Plus Fertilizer (1.33% A.I.)

## Specialty Insecticide

**For control of immature stages of certain insects in turfgrass**

**Not for Sale or Use in Nassau and Suffolk Counties, New York. New York State Requires This Product be Used Only by Professional Applicators.**

Covers up to XX,000 sq ft (XXX' x XX')  
and/or

**This bag covers XX,000 sq ft**

**Active Ingredient:**

halofenozide: Benzoic acid, 4-chloro-, 2-benzoyl-2-(1,1-dimethylethyl) hydrazide .....	1.33%
Other Ingredients .....	98.67%
Total .....	100.00%

**Guaranteed Analysis †**

Total Nitrogen (N) .....	XX%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	XX%
Soluble Potash (K <sub>2</sub> O) .....	XX%

Primary plant foods derived from . . . [Manufacturer should list sources of NPK, e.g., urea, diammonium phosphate, and muriate of potash].

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### Keep Out of Reach of Children

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### Precautionary Statements

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#### Hazard to Humans and Domestic Animals

**Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin**

**Avoid contact with skin, eyes or clothing.**

#### Personal Protective Equipment (PPE)

**WPS USES:** Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) - in general, agricultural plant uses are covered - must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

### Engineering Controls

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

**NON-WPS USES:** Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR part 170) - in general, only agricultural plant uses are covered by the WPS - must wear:

- Shirt and pants
- Gloves
- Shoes plus socks

### 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.

### First Aid

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

For terrestrial uses, 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 cleaning equipment or disposing of equipment washwaters.

This chemical has the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

### Storage and Disposal

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

**Pesticide Storage:** Store in a cool, dry, well-ventilated area. Prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children.

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

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refer to label booklet for Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

**Store in a Dry Place**

EPA Reg. No. 62719-490

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268**

**Net Weight** \_\_\_\_\_

(Label booklet cover):

# MACH 2<sup>®</sup> Plus Fertilizer (1.33% A.I.)

## Specialty Insecticide

**For control of immature stages of certain insects in turfgrass**

**Not for Sale or Use in Nassau and Suffolk Counties, New York. New York State Requires This Product be Used Only by Professional Applicators.**

Covers up to XX,000 sq ft (XXX' x XX')  
and/or

**This bag covers XX,000 sq ft**

Active Ingredient:

halofenozide: Benzoic acid, 4-chloro-,  
2-benzoyl-2-(1,1-dimethylethyl) hydrazide ..... 1.33%

Other Ingredients ..... 98.67%

Total ..... 100.00%

### Guaranteed Analysis<sup>†</sup>

Total Nitrogen (N) ..... XX%

Available Phosphoric Acid (P<sub>2</sub>O<sub>5</sub>) ..... XX%

Soluble Potash (K<sub>2</sub>O) ..... XX%

Primary plant foods derived from . . . [Manufacturer should list sources of NPK, e.g., urea, diammonium phosphate, and muriate of potash].

[<sup>†</sup>Editor's note: Guaranteed analysis will vary and will be determined by the manufacturer.]

**Keep Out of Reach of Children**

## CAUTION      PRECAUTION

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.)

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**Refer to inside of label booklet for additional precautionary information including Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

**Store in a Dry Place**

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EPA Reg. No. 62719-490

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for**  
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**9330 Zionsville Road**  
**Indianapolis, IN 46268**

**Net Weight** \_\_\_\_\_

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## Precautionary Statements

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### Hazard to Humans and Domestic Animals

# CAUTION

**Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin**

**Avoid contact with skin, eyes or clothing.**

### Personal Protective Equipment (PPE)

**WPS USES:** Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) - in general, agricultural plant uses are covered - must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

### Engineering Controls

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

**NON-WPS USES:** Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR part 170) - in general, only agricultural plant uses are covered by the WPS - must wear:

- Shirt and pants
- Gloves
- Shoes plus socks

### 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.

### First Aid

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

For terrestrial uses, 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 cleaning equipment or disposing of equipment washwaters.

This chemical has the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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## Directions for Use

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### Store in a Dry Place

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

### 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 exemptions 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
- Waterproof gloves
- Shoes plus socks

### 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 children and pets out of treated area until dusts have settled.

### Storage and Disposal

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

**Pesticide Storage:** Store in a cool, dry, well-ventilated area. Prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children.

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

#### Nonrefillable rigid containers 5 gallons or less:

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty

the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Nonrefillable nonrigid containers:**

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

**Refillable rigid containers larger than 5 gal:**

**Container Reuse:** 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 and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**Nonrefillable rigid containers larger than 5 gal:**

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**General Information**

MACH 2<sup>®</sup> Plus Fertilizer (1.33% A.I.) specialty insecticide can be used as directed on any turfgrass site (lawns, sod, turf areas). Examples of such sites include, but are not limited to: residential and commercial lawns, grounds or lawns around business and office complexes, shopping centers, multi-family and residential apartment complexes, airports, military and other institutions, cemeteries, parks and picnic areas, playgrounds, schools, athletic fields, golf courses, and sod farms.

MACH 2 Plus Fertilizer (1.33% A.I.) mimics the action of a natural insect hormone that induces the molting and metamorphosis process in insects. MACH 2 Plus Fertilizer (1.33% A.I.) is highly active against grubs and lepidopterous larvae listed as target pests. MACH 2 Plus Fertilizer (1.33% A.I.) controls listed larvae through a novel mode-of-action that starts within hours of ingestion. Actual death of larvae may take several days to occur.

**Use Rate Determination**

Carefully read, understand, and follow label use rates, recommendations and restrictions. Apply the amount specified with a properly calibrated fertilizer spreader. Check calibration periodically to ensure that equipment is working properly. Avoid overlaps that will increase rates above those recommended. Failure to follow the Directions for Use and all precautions on this label may result in grass injury or poor pest control.

### Application Timing

The activity of MACH 2 Plus Fertilizer (1.33% A.I.) is expressed following ingestion by the target larvae. Consequently, the timing of application is dependent upon the feeding behavior of the target pest. Consult your local State Extension Specialists for more specific information regarding timing of applications.

To achieve optimal effectiveness, the following turf management practices are suggested:

- **Minimize thatch** since heavy thatch will prevent the insecticide from penetrating to the area where insects are feeding.
- **Make early applications prior to egg hatch up to when larvae reach the second instar** (late spring through mid summer).
- **MACH 2 Plus Fertilizer (1.33% A.I.) is not dependent upon immediate irrigation for activation;** however, water must transport the material through the thatch. Under conditions of drought it is recommended to water in MACH 2 Plus Fertilizer (1.33% A.I.).

### Application Equipment

Apply MACH 2 Plus Fertilizer (1.33% A.I.) with a drop or rotary spreader designed to apply granular insecticides. Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Calibrate the spreader according to the manufacturer's directions for adjusting the spreader settings such that the spreader delivers the appropriate application rate recommended. Apply this product uniformly over the lawn or ornamental turf area. A more uniform application can be made by spreading half the required amount over the area and then applying the remaining half at a right angle to the previous direction. Avoid streaking, skips, or overlaps during application.

#### Suggested Spreader Settings (Calibration Gauge Setting Number)

Spreader Type	Recommended Rates (lb/1000 sq ft)		
	1.7	3.4	Pattern Setting
XX	X	X	X

[Editor's note: A spreader settings table will be supplied by supplemental distributor.]

### Turfgrass

Pests	MACH 2 Plus Fertilizer (1.33% A.I.) lb/acre	Comments
<b>Lepidoptera larvae such as:</b> larvae of armyworms, cutworms, fall armyworms, and sod webworms	75 (1.72 lb/1000 sq ft)	Apply at first sign of pest damage. A single repeat application can be made if needed.
<b>White grub larvae such as:</b> annual bluegrass weevil larvae ( <i>Hyperodes</i> spp.) aphodius beetle ( <i>Aphodius</i> spp.) billbugs ( <i>Sphenophorus</i> spp.) black turfgrass ataenius ( <i>Ataenius spretulus</i> ) European chafer ( <i>Rhizotrogus majalis</i> ) green June beetle ( <i>Cotinus nitida</i> ) Japanese beetle ( <i>Popillia japonica</i> ) May/June beetle ( <i>Phyllophaga</i> spp.) <sup>1</sup> northern masked chafer ( <i>Cyclocephala borealis</i> )	150 (3.4 lb/1000 sq ft)	MACH 2 Plus Fertilizer (1.33% A.I.) may be used as either a preventative treatment or early treatment against young actively feeding larvae that have not developed past the second instar (see application timing instructions). Make only one application.

Oriental beetle ( <i>Exomala orientalis</i> ) southern masked chafer ( <i>Cyclocephala lurida</i> )		
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May/June beetles (*Phyllophaga* spp.) have lifecycles that last 1 to 4 years depending upon the species. Knowing what species occur in your area is critical. For species having multiple year lifecycles, repeat annual preventative applications are required to the same location. Applications should be made no later than the third week in May. If grub treatments are not repeated over multiple years, there is risk that severe turf damage will occur. **Note:** Application of MACH 2 Plus Fertilizer (1.33% A.I.) for control of this grub does not coincide with timing for control of grubs that develop later in the season.

Do not apply more than 150 lb (2 lb active ingredient) per acre per year regardless of pests controlled.

Use of this product on "Tifdwarf" Bermudagrass greens may result in short term discoloration of the turfgrass. Since many agronomic factors may influence this response it is recommended that users treat a small area at recommended rates prior to initiating large-scale use.

**[Editor's note: Supplemental distributor will add one of the following statements as appropriate if their product is registered in the state of Florida.]**

- Florida Applications: Do not exceed [2] [3] applications per year on bahiagrass in the north.
- Florida Applications: Do not exceed [2] [3] [4] applications per year on bahiagrass in [central Florida] [the south].
- Florida Applications: Do not exceed [3] [4] [5] applications per year on bermudagrass in the north.
- Florida Applications: Do not exceed [4] [5] [6] applications per year on bermudagrass in central Florida.
- Florida Applications: Do not exceed [5] [6] [7] applications per year on bermudagrass in the south.
- Florida Applications: Do not exceed [1] [2] applications per year on centipedegrass in the north.
- Florida Applications: Do not exceed [2] [3] applications per year on centipedegrass in [central Florida] [the south].
- Florida Applications: Do not exceed [2] [3] [4] applications per year on St. Augustinegrass in the north.
- Florida Applications: Do not exceed [2] [3] [4] [5] applications per year on St. Augustinegrass in central Florida.
- Florida Applications: Do not exceed [4] [5] [6] applications per year on St. Augustinegrass in the south.
- Florida Applications: Do not exceed [3] [4] [5] applications per year on zoysiagrass in the north.
- Florida Applications: Do not exceed [3] [4] [5] [6] applications per year on zoysiagrass in central Florida.
- Florida Applications: Do not exceed [4] [5] [6] applications per year on zoysiagrass in the south.

**For Sod Farms:** Allow at least 7 days to elapse between last application and harvest of sod.

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### Terms and Conditions of Use

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If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

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### Warranty Disclaimer

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Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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### Inherent Risks of Use

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It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to



label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

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### **Limitation of Remedies**

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The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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EPA accepted 04/25/05

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**[Sub Label B: Residential Use]**

(Base label):

**MACH 2<sup>®</sup> Plus Fertilizer-OTC (1.33% A.I.)**

**Specialty Insecticide**

**For control of immature stages of certain insects in turfgrass**

In the state of Florida, do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn/garden, and sweep any product that lands on the driveway, sidewalk, or street, back onto your lawn/garden.

Covers up to XX,000 sq ft (XXX' x XX')

and/or

This bag covers XX,000 sq ft

Use [anywhere] on all types of turf[grass]

and/or

[Broad-spectrum] [Controls] [Kills] all types of grubs [No need to identify [ID] grubs]

and/or

Kills [Controls] [larvae of cutworm, sod webworm, armyworm, and fall armyworm] [worms in sod] along with grubs

and/or

Highly active [effective] against listed pests [grubs and other serious lawn pests]

and/or

Unique mode of action [prevents grub and insect damage] [and] protects all season long

and/or

A different [An effective] way to prevent turf damage from grubs and insects

and/or

Kills [Say good-bye to] grubs and other lawn insects

and/or

Mode of action specifically targets turf insect larvae [grubs and worms in the turf]

and/or

Grubs stop feeding and are controlled within [a few] days

and/or

Grubs stop feeding soon after ingestion of MACH 2 [molt inducing action]

and/or

[Once ingested, molt-inducing action] kills within days

and/or

Feeding stops within hours after ingestion

and/or

Apply in late spring to mid-summer for season-long control

and/or

Apply it and forget it

and/or

Dependable and easy to use

and/or

Stays [keeps] working all season long

and/or

Dependable season-long control

and/or

Won't wash out with repeated [heavy] rainfall

- and/or
- Stable formulation – no need for immediate irrigation [watering] [waits for rain]**
- and/or
- [Apply when convenient]; immediate irrigation [watering] not required [let rain put it to work]**
- and/or
- Apply prior to egg hatch or when larvae are small for season-long control**
- and/or
- Broad window of application [from prior to egg hatch through early larval stages] [from late spring through mid-summer]**
- and/or
- Highest [A single] rate provides preventative plus early curative control of grubs [plus curative control through mid-season]**
- and/or
- Unique more concentrated formula**
- and/or
- Kills grubs now and prevents them [from damaging your lawn] all season long**
- and/or
- Apply just once for season-long grub control**
- and/or
- Starts working in hours**
- and/or
- Let nature do the watering**
- and/or
- Just one application [kills] [controls] [prevents] grubs [all season long] [for a full season] [for an entire season]**
- and/or
- Also kills [controls] [lawn-damaging] cutworms, sod webworms, armyworms, and fall armyworms**
- and/or
- No watering in necessary**
- and/or
- 2 in 1 formula – kills grubs and feeds turf[grass]**
- and/or
- Formulated with Scotts Poly-S controlled release fertilizer**
- and/or
- Apply May to August**
- and/or
- Feeds up to 29,000 sq ft**

***Not for Sale or Use in Nassau and Suffolk Counties, New York. New York State Requires This Product be Used Only by Professional Applicators.***

***Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.***

Active Ingredient:

- halofenozide: Benzoic acid, 4-chloro-, 2-benzoyl-2-(1,1-dimethylethyl) hydrazide ..... 1.33%
- Other Ingredients ..... 98.67%
- Total ..... 100.00%

<b>Guaranteed Analysis †</b>	
Total Nitrogen (N) .....	XX%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	XX%
Soluble Potash (K <sub>2</sub> O) .....	XX%

Primary plant foods derived from . . . [Manufacturer should list sources of NPK, e.g., urea, diammonium phosphate, and muriate of potash].

[†Editor's note: Guaranteed analysis will vary and will be determined by the manufacturer.]

## Keep Out of Reach of Children

# CAUTION PRECAUCION

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.)

## Precautionary Statements

### Hazard to Humans and Domestic Animals

**Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin**

**Avoid contact with skin, eyes or clothing. Wear shirt and pants, socks and shoes, and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and was contaminated clothing before reuse.**

### First Aid

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent runoff to water bodies or drainage systems.

This chemical has the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### Storage and Disposal

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

**Pesticide Storage:** Store in a cool dry place out of the reach of children and domestic animals. Store in original container only.

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

**Refer to label booklet for Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

**Store in a Dry Place**

EPA Reg. No. 62719-490

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for**  
**Dow AgroSciences LLC**  
**9330 Zionsville Road**  
**Indianapolis, IN 46268**

**Net Weight** \_\_\_\_\_

(Label booklet cover):

## **MACH 2<sup>®</sup> Plus Fertilizer-OTC (1.33% A.I.)**

### **Specialty Insecticide**

#### **For control of immature stages of certain insects in turfgrass**

In the state of Florida, do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn/garden, and sweep any product that lands on the driveway, sidewalk, or street, back onto your lawn/garden.

**Covers up to XX,000 sq ft (XXX' x XX')**

and/or

**This bag covers XX,000 sq ft**

**Use [anywhere] on all types of turf[grass]**

and/or

**[Broad-spectrum] [Controls] [Kills] all types of grubs [No need to identify [ID] grubs]**

and/or

**Kills [Controls] [larvae of cutworm, sod webworm, armyworm, and fall armyworm] [worms in sod] along with grubs**

and/or

**Highly active [effective] against listed pests [grubs and other serious lawn pests]**

and/or

**Unique mode of action [prevents grub and insect damage] [and] protects all season long**

and/or

**A different [An effective] way to prevent turf damage from grubs and insects**

and/or

**Kills [Say good-bye to] grubs and other lawn insects**

and/or

**Mode of action specifically targets turf insect larvae [grubs and worms in the turf]**

and/or

**Grubs stop feeding and are controlled within [a few] days**

and/or

**Grubs stop feeding soon after ingestion of MACH 2 [molt inducing action]**

and/or

**[Once ingested, molt-inducing action] kills within days**

and/or

**Feeding stops within hours after ingestion**

and/or

**Apply in late spring to mid-summer for season-long control**

and/or

**Apply it and forget it**

and/or

**Dependable and easy to use**

and/or

**Stays [keeps] working all season long**

and/or

**Dependable season-long control**

and/or

**Won't wash out with repeated [heavy] rainfall**

and/or

**Stable formulation – no need for immediate irrigation [watering] [waits for rain]**

- and/or
- [Apply when convenient]; immediate irrigation [watering] not required [let rain put it to work]**
- and/or
- Apply prior to egg hatch or when larvae are small for season-long control**
- and/or
- Broad window of application [from prior to egg hatch through early larval stages] [from late spring through mid-summer]**
- and/or
- Highest [A single] rate provides preventative plus early curative control of grubs [plus curative control through mid-season]**
- and/or
- Unique more concentrated formula**
- and/or
- Kills grubs now and prevents them [from damaging your lawn] all season long**
- and/or
- Apply just once for season-long grub control**
- and/or
- Starts working in hours**
- and/or
- Let nature do the watering**
- and/or
- Just one application [kills] [controls] [prevents] grubs [all season long] [for a full season] [for an entire season]**
- and/or
- Also kills [controls] [lawn-damaging] cutworms, sod webworms, armyworms, and fall armyworms**
- and/or
- No watering in necessary**
- and/or
- 2 in 1 formula – kills grubs and feeds turf[grass]**
- and/or
- Formulated with Scotts Poly-S controlled release fertilizer**
- and/or
- Apply May to August**
- and/or
- Feeds up to 29,000 sq ft**

***Not for Sale or Use in Nassau and Suffolk Counties, New York. New York State Requires This Product be Used Only by Professional Applicators.***

***Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.***

Active Ingredient:  
 halofenozide: Benzoic acid, 4-chloro-,  
 2-benzoyl-2-(1,1-dimethylethyl) hydrazide ..... 1.33%  
 Other Ingredients ..... 98.67%  
 Total ..... 100.00%

<b>Guaranteed Analysis <sup>†</sup></b>	
Total Nitrogen (N) .....	XX%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	XX%
Soluble Potash (K <sub>2</sub> O) .....	XX%
Primary plant foods derived from . . . [Manufacturer should list sources of NPK, e.g., urea, diammonium phosphate, and muriate of potash].	

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[†Editor's note: Guaranteed analysis will vary and will be determined by the manufacturer.]

**Keep Out of Reach of Children**

**CAUTION      PRECAUCION**

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.)

**Refer to inside of label booklet for additional precautionary information including Directions for Use.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

**Store in a Dry Place**

EPA Reg. No. 62719-490

EPA Est. \_\_\_\_\_

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**Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268**

**Net Weight** \_\_\_\_\_



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**Precautionary Statements**

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**Hazard to Humans and Domestic Animals****CAUTION**

**Causes Moderate Eye Irritation • Harmful If Absorbed Through Skin**

**Avoid contact with skin, eyes or clothing. Wear shirt and pants, socks and shoes, and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and was contaminated clothing before reuse.**

**First Aid**

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may contact 1-800-992-5994 for emergency medical treatment information.

**Environmental Hazards**

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent runoff to water bodies or drainage systems.

This chemical has the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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**Directions for Use**

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**Store in a Dry Place**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all *Directions for Use* carefully before applying.

**Storage and Disposal**

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

**Pesticide Storage:** Store in a cool dry place out of the reach of children and domestic animals. Store in original container only.

**Container Reuse:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

**General Information**

MACH 2<sup>®</sup> Plus Fertilizer-OTC (1.33% A.I.) specialty insecticide can be used as directed on any turfgrass site (lawns, sod, turf areas). Examples of such sites include, but are not limited to: residential lawns and multi-family and residential apartment complexes.

MACH 2 Plus Fertilizer-OTC (1.33% A.I.) mimics the action of a natural insect hormone that induces the molting and metamorphosis process in insects. MACH 2 Plus Fertilizer-OTC (1.33% A.I.) is highly active against grubs and lepidopterous larvae listed as target pests. MACH 2 Plus Fertilizer-OTC (1.33% A.I.) controls listed larvae through a novel mode-of-action that starts within hours of ingestion. Actual death of larvae may take several days to occur.

### Use Rate Determination

Carefully read, understand, and follow label use rates, recommendations and restrictions. Apply the amount specified with a properly calibrated fertilizer spreader. Check calibration periodically to ensure that equipment is working properly. Avoid overlaps that will increase rates above those recommended. Failure to follow the Directions for Use and all precautions on this label may result in grass injury or poor pest control.

### Application Timing

The activity of MACH 2 Plus Fertilizer-OTC (1.33% A.I.) is expressed following ingestion by the target larvae. Consequently, the timing of application is dependent upon the feeding behavior of the target pest.

To achieve optimal effectiveness, the following turf management practices are suggested:

- **Minimize thatch** since heavy thatch will prevent the insecticide from penetrating to the area where insects are feeding.
- **Make early applications prior to egg hatch up to when larvae reach the larva stage of development** (late spring through mid summer).
- **MACH 2 Plus Fertilizer-OTC (1.33% A.I.) is not dependent upon immediate irrigation for activation**; however, water must transport the material through the thatch. Under conditions of drought it is recommended to water in MACH 2 Plus Fertilizer-OTC (1.33% A.I.).

### Application Equipment

Apply MACH 2 Plus Fertilizer-OTC (1.33% A.I.) with a drop or rotary spreader designed to apply granular insecticides. Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Calibrate the spreader according to the manufacturer's directions for adjusting the spreader settings such that the spreader delivers the appropriate application rate recommended. Apply this product uniformly over the lawn or ornamental turf area. A more uniform application can be made by spreading half the required amount over the area and then applying the remaining half at a right angle to the previous direction. Avoid streaking, skips, or overlaps during application.

#### Suggested Spreader Settings (Calibration Gauge Setting Number)

Spreader Type	Recommended Rates (lb/1000 sq ft)		
	1.7	3.4	Pattern Setting
XX	X	X	X

[Editor's note: A spreader settings table will be supplied by supplemental distributor.]

### Turfgrass

Pests	MACH 2 Plus Fertilizer-OTC (1.33% A.I.) lb/1000 sq ft	Comments
Lepidoptera larvae such as: larvae of armyworms, cutworms, fall armyworms, and sod webworms	1.72	Apply at first sign of pest damage. A single repeat application can be made if needed.
White grub larvae such as:	3.4	MACH 2 Plus Fertilizer-OTC (1.33%

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annual bluegrass weevil larvae aphodius beetle billbugs black turfgrass ataenius European chafer green June beetle Japanese beetle May/June beetle <sup>1</sup> northern masked chafer Oriental beetle southern masked chafer		A.I.) may be used as either a preventative treatment or early treatment against young actively feeding larvae that have not developed past the larva stage) (see application timing instructions). Make only one application.
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<sup>1</sup> May/June beetles have lifecycles that last 1 to 4 years depending upon the species. Knowing what species occur in your area is critical. For species having multiple year lifecycles, repeat annual preventative applications are required to the same location. Applications should be made no later than the third week in May. If grub treatments are not repeated over multiple years, there is risk that severe turf damage will occur. **Note:** Application of MACH 2 Plus Fertilizer-OTC (1.33% A.I.) for control of this grub does not coincide with timing for control of grubs that develop later in the season.

Do not apply more than 3.4 lb (2 lb active ingredient) per 1000 sq ft per year regardless of pests controlled.

Use of this product on "Tifdwarf" Bermudagrass greens may result in short term discoloration of the turfgrass. Since many agronomic factors may influence this response it is recommended that users treat a small area at recommended rates prior to initiating large-scale use.

**[Editor's note: Supplemental distributor will add one of the following statements as appropriate if their product is registered in the state of Florida.]**

- Florida Applications: Do not exceed [2] [3] applications per year on bahiagrass in the north.
- Florida Applications: Do not exceed [2] [3] [4] applications per year on bahiagrass in [central Florida] [the south].
- Florida Applications: Do not exceed [3] [4] [5] applications per year on bermudagrass in the north.
- Florida Applications: Do not exceed [4] [5] [6] applications per year on bermudagrass in central Florida.
- Florida Applications: Do not exceed [5] [6] [7] applications per year on bermudagrass in the south.
- Florida Applications: Do not exceed [1] [2] applications per year on centipedegrass in the north.
- Florida Applications: Do not exceed [2] [3] applications per year on centipedegrass in [central Florida] [the south].
- Florida Applications: Do not exceed [2] [3] [4] applications per year on St. Augustinegrass in the north.
- Florida Applications: Do not exceed [2] [3] [4] [5] applications per year on St. Augustinegrass in central Florida.
- Florida Applications: Do not exceed [4] [5] [6] applications per year on St. Augustinegrass in the south.
- Florida Applications: Do not exceed [3] [4] [5] applications per year on zoysiagrass in the north.
- Florida Applications: Do not exceed [3] [4] [5] [6] applications per year on zoysiagrass in central Florida.
- Florida Applications: Do not exceed [4] [5] [6] applications per year on zoysiagrass in the south.

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### Terms and Conditions of Use

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If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

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### Warranty Disclaimer

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Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR

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IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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**Inherent Risks of Use**

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It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

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**Limitation of Remedies**

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The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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