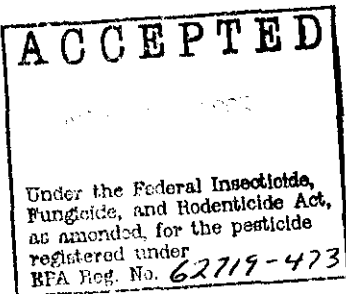


62719-473

4-25-2005

1/2

[Sub Label A: Professional Use]



(Label):

(Logo) Dow AgroSciences

**MACH 2<sup>®</sup> 1.5G**

**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.**

Active Ingredients:

halofenozide: Benzoic acid, 4-chloro-, 2-benzoyl-2-(1,1-dimethylethyl) hydrazide.....	1.5%
Inert Ingredients .....	98.5%
Total .....	100.0%

**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.**

**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:

2/12

- 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.

Refer to back panel for Directions for Use including Storage and Disposal.

**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 at end of 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.

EPA Reg. No. 62719-473

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

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

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### Directions for Use

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It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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 (that cannot be used according to label instructions) may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Completely empty bag into application equipment. 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.

**Steps to be Taken if Material is Released or Spilled:** Appropriate protective equipment must be worn when handling a spill of this material. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away.

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### General Information

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MACH 2<sup>®</sup> 1.5G 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 1.5G mimics the action of a natural insect hormone that induces the molting and metamorphosis process in insects. MACH 2 1.5G is highly active against grubs and lepidopterous larvae listed as target pests. MACH 2 1.5G 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 in the following table with a properly calibrated granular 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 1.5G 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 1.5G 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 1.5G.

### Application Equipment

Apply MACH 2 1.5G 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

Spreader Type	Ground or PTO Speed (mph)	Recommended Rates (lb/1000 sq ft)				
		Width of Coverage (ft)	1.5	2.3	3.0	Pattern Setting
LESCO rotary	3	8	D 1/2	F 1/4	X	0.0
Scott Rotaries (R-7, R-7X)	3	8	D	E 3/4	G	6
Scott Rotaries (R-8, R-8A, SR-1)	3	8	I	J	K	6
Cyclone	X	X	X	X	X	X
Spyker	X	X	X	X	X	X
Vicon (model 03)	5.6	19	13	15	17	X
PrizeLawn	3	4	3 1/4	3 1/2	X	A
Lely	4.5	22	3	3 1/2	4	II-C

### Use Directions for Turfgrass

Pests	MACH 2 1.5G lb/acre	Comments
<b>Lepidoptera larvae such as:</b> larvae of armyworms, cutworms, fall armyworms, and sod webworms	67 (1.55 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.) northern masked chafer ( <i>Cyclocephala borealis</i> ) Oriental beetle ( <i>Exomala orientalis</i> ) southern masked chafer ( <i>Cyclocephala lurida</i> )	133 (3 lb/1000 sq ft)	MACH 2 1.5G 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 one application at full rate.

Do not apply more than 133 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.

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

### Terms and Conditions of Use

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.

### Warranty Disclaimer

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.

### Inherent Risks of Use

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),

6/12

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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7/12

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

(Label):

(Logo) **Dow AgroSciences**

**MACH 2<sup>®</sup> 1.5G-OTC**

**Specialty Insecticide**

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

- and/or
- 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

8/12

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

*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 Ingredients:

halofenozide: Benzoic acid, 4-chloro-, 2-benzoyl-2-(1,1-dimethylethyl) hydrazide.....	1.5%
Inert Ingredients .....	98.5%
Total .....	100.0%

**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. 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.**



9/12

**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.

**Refer to back panel for Directions for Use including Storage and Disposal.**

**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 at end of 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.

EPA Reg. No. 62719-473

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

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

10/12

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## Directions for Use

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It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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, 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: If empty:** Do not reuse this container. Place in trash or offer for recycling if available.

**If partly filled:** Call your local solid waste agency or 1-800-992-5994 for disposal instructions. Never place unused product down any indoor or outdoor drain.

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## General Information

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MACH 2<sup>®</sup> 1.5G-OTC specialty insecticide can be used as directed on any turfgrass site (lawns, turf areas). Examples of such sites include, but are not limited to: residential lawns and multi-family and residential apartment complexes.

MACH 2 1.5G-OTC mimics the action of a natural insect hormone that induces the molting and metamorphosis process in insects. MACH 2 1.5G-OTC is highly active against grubs and lepidopterous larvae listed as target pests. MACH 2 1.5G-OTC 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 in the following table with a properly calibrated granular 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 1.5G-OTC 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 1.5G-OTC 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 1.5G-OTC.

### Application Equipment

Apply MACH 2 1.5G-OTC 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 above. Apply this product uniformly over the lawn or ornamental turf area. A more uniform application can be made by spreading half the

11/12

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

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

### Use Directions for Turfgrass

Pests	MACH 2 1.5G-OTC lb/1000 sq ft	Comments
<b>Lepidoptera larvae such as:</b> larvae of armyworms, cutworms, fall armyworms, and sod webworms	1.55	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 aphodius beetle billbugs black turfgrass ataenius European chafer green June beetle Japanese beetle May/June beetle northern masked chafer Oriental beetle southern masked chafer	3	MACH 2 1.5G-OTC 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 one application at full rate.

Do not apply more than 3 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.

### Terms and Conditions of Use

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.

### Warranty Disclaimer

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.

### Inherent Risks of Use

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.

12/  
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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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