Please read instructions of	reverse before completing form.	11/12/200		2070-0060	Approval expires 05-31-98	
SEPA	United States Environmental Protec Washington, DC 2	tion Agency	Regist Amend	ration	OPP Identifier Number	
	Applicat	ion for Pesticide -	Section I			
<ol> <li>Company/Product Number Dow AgroSciences/62</li> </ol>		2. EPA Produc	t Manager Joanne I. Miller	3. Pro	posed Classification	
4. Company/Product (Name)	——————————————————————————————————————	PM#	· · · · · · · · · · · · · · · · · · ·	$\dashv \sqcap$	None Restricted	
Dow AgroSciences/ Granite™ GR			PM / 23			
5. Name and Address of App Dow AgroSciences LL 9330 Zionsville Road Indianapolis, IN 46268 Check if this	С	■	duct is similar or idei		FRA Section 3(c)(3) position and labeling	
		Section - II				
Amendment - Explair Resubmission in resp	onse to Agency letter dated	Agend	printed labels in respond by letter dated foo" Application. - Explain below.	<del>- NO</del> 1	FIFICATION 1 1 5 2005	
		Section - III				
1. Material This Product Will	<del></del>		··· <del>····</del>	·		
Child-Resistant Packaging Yes* No *Certification must be submitted  3. Location of Net Contents	i '	Water Soluble Packaging Yes No If "Yes" No Package wgt cor etail Container	per ntainer  5 Location of L	bel	s	
	ontainer	hograph		beling accomp	panying product	
6. Manner in Which Label is	Participation Product	per glued L	Other	<del></del>	<u></u>	
-		enciled Section - IV		<del></del>		
1. Contact Point /Complete	items directly below for identifica		acted, if necessary, to	process this	application)	
Name		Title	Telep	hone No. (Inc	lude Area Code)	
Rafael Herrera. Regulatory Leader		Regulatory Manag	Regulatory Manager		317′337-4672	
I certify that the state I acknowledge that ar both under applicable 2. Signature	Certific ments I have made on this form an any knowing false or misleading states.	d all attachments thereto a tement may be punishable	re true, accurate and o by fine or imprisonme	complete.	9 Date Application Received (Stamped)	
Malkini Ica		Regulatory Manager				
4. Typed Name  Rafael Herrers * Trademark of Dow AgroScie	ı. Regulatory Leader	5. Date 23	8 October 2005			
	1) Previous editions are obsolete	<u> </u>	White - EPA File Co	pv (original)	Yellow - Applicant Cop	

# Granite<sup>TM</sup> GR

EPA Reg. No. 62719-501

## **Proposed Changes by Amendment:**

- 1. General Information: (1) Revised statements in first paragraph to clarify and refine when the product should be applied to rice; (2) added "Fertilizer top dressing will speed crop recovery." to end of second paragraph to let the grower know what he can do for quicker crop recovery.
- 2. General Use Precautions and Restrictions: Bullet points added that expand on statements that already appear in the label and to reflect current cultural practices by rice growers in California
- 3. Application Timing: (1) Revised statements in first paragraph to clarify and refine when the product should be applied to rice; (2) added Figure 1 to illustrate textual statements in first paragraph; (3) added second paragraph to reflect knowledge gained from actual growing conditions.
- 4. Water Management Recommendations: Added section to reflect current cultural practices by rice growers in California and knowledge gained from actual growing conditions.
- 5. Resistance Management: At end of second paragraph, repeated statement from General Use Precautions and Restrictions.
- 6. Application Rates and Weeds Controlled: (1) Added footnote 1 in table and reformatted "†" to numbers; (2) the text for footnote 1 underneath the table is a statement that first appears in General Use Precautions and Restrictions.

# Granite™ GR

EPA Reg. No. 62719-501

## **Registration Notes:**

Source label text based on EPA-accepted copy dated October 28, 2004.

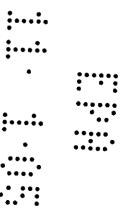
#### Changes by notification:

- 1. General Information: (1) Revised statements in first paragraph to clarify and refine when the product should be applied to rice; (2) added "Fertilizer top dressing will speed crop recovery." to end of second paragraph to let the grower know what he can do for quicker crop recovery.
- 2. General Use Precautions and Restrictions: Bullet points added that expand on statements that already appear in the label and to reflect current cultural practices by rice growers in California
- 3. Application Timing: (1) Revised statements in first paragraph to clarify and refine when the product should be applied to rice; (2) added Figure 1 to illustrate textual statements in first paragraph; (3) added second paragraph to reflect knowledge gained from actual growing conditions.
- 4. Water Management Recommendations: Added section to reflect current cultural practices by rice growers in California and knowledge gained from actual growing conditions.
- 5. Resistance Management: At end of second paragraph, repeated statement from General Use Precautions and Restrictions.
- 6. Application Rates and Weeds Controlled: (1) Added footnote 1 in table and reformatted "†" to numbers; (2) the text for footnote 1 underneath the table is a statement that first appears in General Use Precautions and Restrictions.

[Editor's note: Added text is underlined and deleted text is denoted by strikethrough.]

™Trademark of Dow AgroSciences LLC

**06Dec04** – At the request of artwork, reformatted this label to have a base label, booklet cover and page 1 through the end. **Cindy Loy** 



4/13

(Base Label):

(logo) Dow AgroSciences

**NOTIFICATION** 

NOV 1 5 2005

# Granite™ GR

## Herbicide

## For selective weed control in water-seeded rice in California

Active Ingredient:

penoxsulam: 2-(2,2-difluoroethoxy)-N-

(5,8-dimethoxy[1,2,4] triazolo[1,5c]pyrimidin-

2-yl)-6-(trifluoromethyl)benzenesulfonamide......... 0.24%

Inert Ingredients 99.76%

Contains 0.24 lb of active ingredient per 100 lb bag

## Keep Out of Reach of Children

## **Precautionary Statements**

## Hazards to Humans and Domestic Animals

## Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- · 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 Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **User Safety Recommendations**

Users should

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### **Environmental Hazards**

Except when treating rice fields as specified in this product label, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

#### Agricultural Use Requirements

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

Refer to label booklet for Directions for Use including Storage and Disposal.



5/13

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 booklet. 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. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

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

EPA Reg. No. 62719-501

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

™Trademark of Dow AgroSciences LLC

Dow AgroSciences LLC • Indianapolis, IN 46268 USA

Net Weight \_\_\_\_

Page 3

(Label Booklet Cover):

(logo) Dow AgroSciences

## Granite™ GR

#### Herbicide

#### For selective weed control in water-seeded rice in California

Contains 0.24 lb of active ingredient per 100 lb bag

## Keep Out of Reach of Children

#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to 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 Personal Protective Equipment (PPE), User Safety Recommendations and 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 booklet. 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. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

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

EPA Reg. No. 62719-501	EPA Est.
™Trademark of Dow AgroSciences LLC  Dow AgroSciences LLC • Indianapolis, IN 46268 USA	
DOW Agrocolorisco LEO Indianapolis, in focus cox	Net Weight

7/12

(Page 1 through end):

## **Precautionary Statements**

#### Hazards to Humans and Domestic Animals

## Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- · 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 Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## **User Safety Recommendations**

Users should:

· Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### **Environmental Hazards**

Except when treating rice fields as specified in this product label, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

#### **Directions for Use**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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 dift. 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 exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

age 5 8) 13

## Storage and Disposal

Do not contaminate water, food or feed by storage and disposal. **Pesticide Storage:** Store in cool dry place in original container.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an

approved waste disposal facility.

**Container Disposal:** 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.

## **General Information**

Granite M GR herbicide is a postflood, postemergence herbicide for selective control of susceptible grass, broadleaf, and sedge weeds in California rice. Susceptible weeds at the 1 to 3 leaf stage emerged at the time of application or which germinate soon after application will be controlled (refer to Application Rates and Weeds Controlled table). Apply Granite GR directly into flooded fields by air or ground granule application equipment to control susceptible weeds when rice is at a minimum 2 1/2 the >2 fully developed leaf stage of growth. At this stage, the second leaf is fully expanded or unfurled with the third leaf emerged but not expanded (refer to Application Timing section). Average water depth at application should be maintained at 4 between 3-to 5 inches, with a minimum water depth of 3 inches in the shallowest part of the field with completely submerged weeds and no exposed soil (refer to Water Management section). Granite GR provides short-term residual weed control activity of susceptible weeds.

Rice crops grown under adverse environmental conditions, such as extreme cold or heat, may express temporary crop injury when Granite GR is applied including slight height reduction or root stunting. Any crop stress or environmental factors which decrease plant metabolism and growth may reduce weed control efficacy and crop tolerance. Such effects are transient and do not affect yield. Fertilizer top dressing will speed crop recovery.

#### **General Use Precautions and Restrictions**

- Preharvest Interval: Do not apply Granite GR within 60 days of rice harvest.
- Granite GR may not reliably control known ALS resistant weed biotypes.
- Applications made to <u>greater than >3</u> leaf weeds, dense weed populations, and/or <u>average</u> water <u>depth</u> greater than 6 inches may result in reduced weed control.
- Do not apply Granite GR following rainfall until the water depth in checks or basins has been adjusted to meet the correct water depth requirements.
- S tatic water conditions for 7 days following an application of Granite GR are recommended for best results. It is important not to allow the minimum water depth to drop below 3 inches; therefore, adding water may be required. Water should be trickled in or added very slowly.
- For best results, it is recommended that water not be released for 14 days following an application of Granite GR. During this time water depth should be maintained or can be increased as rice grows. Early release of water may result in reduced weed control.
- S hallow water conditions can result in reduced weed control as it may promote additional weed flushes and can increase the potential for crop injury.
- Reduced weed control can be expected at field water inlets due to dilution and movement of water.
- Do no t apply where runoff or irrigation water may flow directly onto agricultural land other than rice fields.
- The use of Granite GR on rice varieties with known reduced seedling vigor when established and grown under adverse weather conditions is not recommended. Use care when using Granite GR on newly released rice varieties until variety tolerance can be determined.
- Application of Granite GR to fields that have been leveled within 12 months prior to application may
  result in serious rice injury in areas that have been cut or filled. This does not apply to onrmal annual
  land planning activities.



- Under poor field preparation practices (i.e., lack of soil aeration, unleveled ground, large clods, excessive crop residue, weeds emerged prior to flooding, etc.), reduced weed control may occur when using Granite GR.
- Cold and/or alternating weather conditions during the planting season can result in prolonged weed seed germination resulting in reduced weed control.
- Do not make more than 1 application or apply more than 18.5 lb per acre of Granite GR (0.044 lb ai penoxsulam per acre) during the growing season.
- · Do not apply Granite SC to the same field in the same year following an application of Granite GR.
- Do not rotate treated land to crops other than rice for 3 months following application.
- · Do not use on wild rice.
- Do not fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment.
- Chemigation: Do not apply this product through any type of irrigation system.

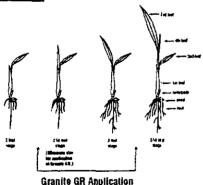
## **Best Management Practices for Aerial Application**

Equipment used in the application of Granite GR should be carefully calibrated before use and checked frequently during application to be sure it is working properly and delivering a uniform distribution pattern. Avoid overlaps that will increase Granite GR dosage above recommended limits. Aerial application should be made only when the wind velocity is 0 to 10 mph.

## **Application Timing**

Application timing is dependent on the proper rice growth stage and optimum timing for weed species present. Granite GR herbicide should may be applied to rice after it reaches a minimum of 2 1/2 at the >2 fully developed leaf stage (Figure 1); at this stage the second rice leaf is fully expanded or unfurled with third leaf emerged, and to susceptible weeds from the 1 to 3 leaf stage up to 60 days before harvest. This will usually occur from 7 to 12 days after rice seeding. Fields must be fleeded to an average depth of 3 to 5 inches prior to application. For best results, maintain a 3 to 5 inch uniform average water depth for 10 days after application. Water depth can be increased as rice grows. Failure to maintain flood may result in reduced weed control or crop tolerance. Within this application window, application timing is dependent on cultural practices and optimum timing for weed species present. Granite GR should be applied when susceptible weeds are from the 1 to 3 leaf stage up to 60 days before harvest. (See Application Rates and Weeds Controlled table.)





It is important that the stage of rice be closely monitored prior to application to determine the correct timing for an application of Granite GR. Under cool growing conditions, rice development can be delayed; therefore, close crop development monitoring is recommended prior to application.

## Water Management Recommendations

Immediately prior to application:



- Average water depth at application should be maintained at 4 to 5 inches, with a minimum water depth
  of 3 inches in the shallowest part of the field, with completely submerged weeds and no exposed soil.
- If rainfall occurs prior to application, do not apply Granite GR until water depth in checks or basins can be adjusted to meet the correct water depth requirements.

#### First week following application:

- For best results, maintain a static flood for 7 days following application.
- During the static flood period it is important to maintain a minimum water depth of 3 inches. If necessary, water can be slowly added or trickled in to maintain water depth.
- If water is lost from a basin or check, reflood immediately. Early release of water may result in reduced weed control.
- Failure to maintain the recommended flood depth after an application of Granite GR may result in reduced weed control or crop tolerance.

#### Second week following application:

- Following the 7-day static flood period, it is recommended that water not be released for an additional 7 days.
- During this time, water depth should be maintained or increased as rice grows.
- Shallow water conditions can result in reduced weed control as it may promote additional weed flushes.
- If water is lost from a basin or check, reflood immediately. Early release of water may result in reduced weed control.

At the conclusion of the 2-week treatment period, it is important to manage water flood depth to prevent secondary weed flushes which can occur if water is released or lowered.

## Resistance Management

The mode of action of Granite GR is the inhibition of the acetolactate synthase (ALS) enzyme. Weed populations may develop biotypes that are resistant to different herbicides with the same mode of action. If herbicides with the same mode of action are used repeatedly in the same field, resistant biotypes may eventually dominate the weed population and may not be controlled by these products. Other resistance mechanisms, such as enhanced metabolism, may also exist and may cause reduced weed control. Granite GR may not reliably control known ALS resistant weed biotypes.

This product should be used as part of an Integrated Pest Management (IPM) program that may include biological, cultural, and chemical practices aimed at preventing economic pest damage. Application of this product should be based on appropriate IPM and resistance management strategies and practices that delay or reduce the development of resistant weed biotypes. Such practices include, but are not limited to, field scouting, use of weed free crop seed, proper water management, correct weed pest identification, following rotational practices outlined on pesticide labels, and treating when target weed populations are at the correct stage and economic thresholds for control. Make only 1 application per acre per year of Granite GR. Do not apply Granite SC to the same field in the same year following an application of Granite GR.

To delay development of herbicide resistance, the following practices are recommended:

- Always use at least 15 lb per acre formulated product and observe all label use rate instructions.
- The use of herbicides with the same mode of action should not be used in sequential applications.
- Herbicides should be used based on an IPM program.
- · Monitor treated areas and control escaped weeds.
- · Contact local extension or crop advisor for IPM and resistance management information.

## **Application Rates and Weeds Controlled**

(For Use in the State of California)



Weeds Controlled <sup>1</sup>	Application Rate and Stage		
Common name	of Weed Development		
(scientific name)	15 lb/acre <sup>2†</sup>		
barnyardgrass	Up to 3 leaf		
(Echinochloa crus-galli)			
California arrowhead	•		
(Sagittaria montevidensis spp. Caclycina)			
common waterplantain			
(Alisma plantago-aquatica)	i		
ducksalad	]		
(Heteranthera spp)			
monochoria			
(Monochoria spp)			
ricefield bulrush			
(Scirpus mucronatus)	1		
watergrass			
(Echinochloa spp)			
Weeds Suppressed			
Gregg's arrowhead			
(Sagittaria longiloba)			
redstem <sup>2††</sup>			
(Ammannia spp)			
rice mimic	,		
(Echinochloa spp)			
smallflower umbreilapiant			
(Cyperus difformis)			

Granite GR may not reliably control known ALS resistant weed biotypes. Weeds that emerge after the treatment period will not be controlled.

<sup>2†</sup>Under conditions of late application when weeds are <u>greater than</u> >3 leaf stage, dense weed populations, or <u>average</u> water <u>depth</u> greater than 6 inches deep, 18.5 lb per acre of Granite GR (0.044 lb ai penoxsulam <u>per acre</u>) may be applied. Application of Granite GR under these conditions may result in reduced weed control.

<sup>3#</sup>Redstem (*Ammannia spp*) is effectively controlled if emerged at the time of treatment with Granite GR.

**Note:** Do not make more than 1 application or apply more than 18.5 lb per acre of Granite GR (0.044 lb ai penoxsulam <u>per acre</u>) during the growing season.

#### 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),

13

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.

## Limitation of Remedies

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.

™Trademark of Dow AgroSciences LLC EPA-accepted 10/28/04

308/2E October 28, 2005



Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1801 South Bell Street
Arlington, VA 22202

NOTIFICATION

NOV 1 5 2005

GRANITE GR (AI: PENOXSULAM)
EPA REGISTRATION NUMBER: 62719-501
NOTIFICATION OF MINOR LABEL CHANGE PER PR NOTICE 98-10

Enclosed please find labeling for the notification action of Granite<sup>TM</sup> GR herbicide. The following changes have been made by notification:

1. Please see the attached Registration Notes for detailed information.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, 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 40 CFR 152.46, 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 with attached Registration Notes
- Label entitled Granite™ GR (E9A / Granite GR / Notif With Edits / 10-27-05) (9 Pages plus Registration Notes) (5 Copies)

If you require further information, please contact Cindy Loy, Regulatory Specialist at 317-337-4655 (caloy@dow.com); or Paula McKinnies, Registration Assistant for this product, at 317-337-4679 (pmckinnies@dow.com).

Rafael Herrera
Regulatory Leader
Regulatory Success – Americas
317-337-4672
317-337-4649 (FAX)

Enclosures

rlherrera@dow.com

/pkm

TMTrademark of Dow AgroSciences LLC