

62719-616

4/15/2011

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

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

APR 15 2011

Darin Lickfeldt
Dow AgroSciences, LLC
9330 Zionsville Road
Indianapolis, IN 46268

Subject: Notification per PR Notice 98-10 (change primary brand name, change scientific name of weeds)
RebeLEX CA
EPA Reg. No. 62719-616
Application Dated March 8, 2011

Dear Mr. Lickfeldt:

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

The primary brand name for this product has been changed from "RebeLEX CA" to "RebeLEX CA" and updated in our records.

If you have any questions, please contact Mindy Ondish at (703)605-0723 or at ondish.mindy@epa.gov.

Sincerely,

Kathryn V. Montague
Product Manager 23
Herbicide Branch
Registration Division (7505P)



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/62719-616	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Dow AgroSciences LLC/RebelEX CA	PM# 23	
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: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION APR 15 2011
<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 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.

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	<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions	
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 Darin Lickfeldt, Ph.D.	Title Regulatory Manager	Telephone No. (Include Area Code) (317) 337-3774 (fax: 317-337-4649)
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6: Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Darin Lickfeldt, Ph.D. (dwickfeldt@dow.com)	5. Date March 8, 2011	

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



308/2E
March 8, 2011

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

REBELEX CA (A.I. PENOX SULAM, CYHALOFOP)
EPA REGISTRATION NUMBER: 62719-616
NOTIFICATION OF MINOR LABEL CHANGE PER PR NOTICE 98-10

Enclosed please find labeling for the notification action of RebelEX™ CA herbicide. The following changes have been made by notification:

1. Changed main brand name from Rebel_{EX} CA to RebelEX CA.
2. Weeds Controlled: Corrected scientific name of (1) California arrowhead to Sagittaria montevidensis; (2) ricefield bulrush to Schoenoplectus mucronatus; (3) bearded sprangletop to Leptochloa fusca ssp. fascicularis; (4) red sprangletop to Leptochloa panicea.

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
- Label entitled RebelEX CA (R8E/RebelEX CA/MSTR Notif/03-08-11) (14 Pages plus Registration Notes) (1 Copy)

If you require further information, please contact Cindy Loy, Regulatory Specialist at (317) 337-4655.

Sincerely,

Darin Lickfeldt, Ph.D.
Regulatory Leader
(317) 337-3774
(317) 337-4649 (FAX)

Enclosures

RebelEX™ CA

EPA Reg. No. 62719-616

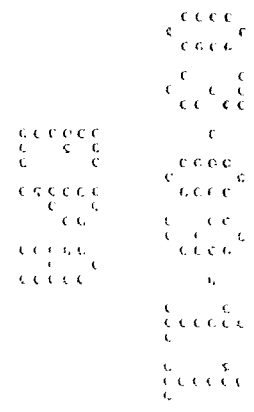
Registration Notes:

Source label text based on EPA-accepted text dated July 14, 2010.

Changes by notification:

1. Changed main brand name from Rebel_{EX} CA to RebelEX CA.
2. Weeds Controlled: Corrected scientific name of (1) California arrowhead to *Sagittaria montevidensis*; (2) ricefield bulrush to *Schoenoplectus mucronatus*; (3) bearded sprangletop to *Leptochloa fusca* ssp. *fascicularis*; (4) red sprangletop to *Leptochloa panicea*.

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(Base label):

RebelEX™ CA

Herbicide

For selective postemergence weed control in rice in the state of California

Active Ingredient:

penoxsulam: 2-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4] triazolo[1,5c]pyrimidin-2-yl)-6-(trifluoromethyl)benzenesulfonamide	2.95%
cyhalofop: 2-[4-(4-cyano-2- fluorophenoxy) phenoxy] propanoic acid, butyl ester, (R)	21.06
Other Ingredients	75.99%
Total	100.00%

NOTIFICATION
APR 15 2011

Contains petroleum distillate

Contains 0.25 lb of penoxsulam active ingredient and 1.78 lb of cyhalofop-butyl active ingredient per gallon

Keep Out of Reach of Children

Precautionary Statements

Hazards to Humans and Domestic Animals

Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Gloves

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.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to person. Do not give anything by mouth to an unconscious person.

Note to physician: May pose aspirational pneumonia hazard. Contains petroleum distillate.

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

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.

NOTE: See Surface Water and Groundwater advisories in label booklet under Environmental Hazards.

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.

(Storage and Disposal for rigid containers 5 gal or less)

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 must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

(Storage and Disposal for refillable rigid containers larger than 5 gal)

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 must be disposed of on site or at an approved waste disposal facility.

Container Handling: 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. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)

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 must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

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. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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 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.

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

EPA Reg. No. 62719-616

TMTrademark of Dow AgroSciences LLC

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

EPA Est. _____

Net Contents _____

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(Cover, shipping container):

RebeIEX™ CA

Herbicide

For selective postemergence weed control in rice in the state of California

Active Ingredient:

penoxsulam: 2-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4] triazolo[1,5c]pyrimidin-2-yl)-6-(trifluoromethyl)benzenesulfonamide	2.95%
cyhalofop: 2-[4-(4-cyano-2- fluorophenoxy) phenoxy] propanoic acid, butyl ester, (R)	21.06
Other Ingredients	75.99%
Total	100.00%

Contains petroleum distillate

Contains 0.25 lb of penoxsulam active ingredient and 1.78 lb of cyhalofop-butyl active ingredient per gallon

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 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 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.

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

EPA Reg. No. 62719-616

EPA Est. _____

™Trademark of Dow AgroSciences LLC

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

Net Contents _____

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(Page 1 through end):

Precautionary Statements

Hazards to Humans and Domestic Animals

Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Gloves

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.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to person. Do not give anything by mouth to an unconscious person.

Note to physician: May pose aspirational pneumonia hazard. Contains petroleum distillate.

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

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.

Surface Water: Cyhalofop-butyl can contaminate surface water through spray drift from aerial and ground application equipment. Treated rice field water can contaminate surface water through accidental release or overflow, or by deliberate release due to normal growing practices, including interim or final release of flood water at harvest

Groundwater: Cyhalofop-butyl demonstrates 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.

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 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

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 must be disposed of on site or at an approved waste disposal facility.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable containers 5 gallons or larger:

Container Handling: 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. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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Nonrefillable containers 5 gallons or larger:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

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. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Product Information

RebelEX™ CA herbicide is a postflood, postemergence herbicide for selective control of susceptible grass, broadleaf, and sedge weeds in rice in California. Only susceptible weeds emerged at the time of application will be controlled. A spray volume of 10 gallons or more per acre (gpa) and uniform coverage are required for optimum performance. A crop oil concentrate at 2.5% v/v, or a methylated seed oil or vegetable oil concentrate, at specified label use rates is required with RebelEX CA. RebelEX CA is rainfast within 2 hours after application.

Rice crops grown under adverse environmental conditions, such as extreme cold or heat, may express temporary crop injury when RebelEX CA 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. RebelEX CA may be used on all rice varieties; however, it is important to recognize that the degree of crop tolerance may vary depending upon variety and environmental conditions. Do not apply RebelEX CA to wild rice.

Use Precautions and Restrictions

- **Preharvest Interval:** Do not apply within 60 days of rice harvest.
- RebelEX CA may not reliably control known ACC'ase or ALS resistant weed biotypes.
- Do not apply RebelEX CA directly to, or otherwise permit RebelEX CA to come into contact with, commercially produced broadleaf crops such as cotton, green or dry beans, melons, tomatoes, grapes, pome/stone/fruit trees, peaches, nectarines, all vegetable crops, all perennial tree or vine crops as well as commercially grown flowers, ornamental shrubs or trees, or other desirable commercially produced broadleaf plants, as serious injury may occur. Do not permit spray mists containing RebelEX CA to drift onto desirable broadleaf plants.
- Do not apply RebelEX CA directly to, or otherwise permit RebelEX CA to come into contact with, commercially produced non-target cereal and grass crops such as corn, sorghum, wheat, sugar cane, turfgrass, sod farms, grass grown for seed, etc. Do not permit spray mists containing RebelEX CA to drift onto desirable grass plants.
- Do not make more than one application or apply more than 20 fl oz of RebelEX CA per acre during the growing season.
- One sequential application of Clincher® CA herbicide can be made greater than 10 days before or after an application of RebelEX CA depending upon the rate of RebelEX CA applied. Follow all label use directions for Clincher CA.

Rate of RebelEX CA (fl oz/acre)	Maximum Sequential Rate of Clincher CA (fl oz/acre)
16	13

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18	11.5
20	10

- One sequential application of Clincher EZ can be made greater than 10 days before or after an application of RebelEX CA depending upon the rate of RebelEX applied. Follow all label use directions for Clincher EZ.

Rate of RebelEX CA (fl oz/acre)	Maximum Sequential Rate of Clincher EZ (fl oz/acre)
16	18.5
18	16
20	14

- After an application of RebelEX CA, begin re-flooding three hours after application. For best results, fields should be completely re-flooded 24 to 48 hours after application.
- Do not apply RebelEX CA to a field treated in the same year with an application of Granite® GR herbicide or Granite CA.
- Do not overlap or double spray ends of fields.
- Poor weed control may result from application of RebelEX CA made to plants under stress from abnormally hot or cold weather; environmental conditions such as drought, hail damage, or high pH soils; or prior herbicide applications.
- Do not allow tank mixes of RebelEX CA to sit overnight.
- Do not tank mix RebelEX CA with malathion or methyl parathion. Do not make an application of malathion or methyl parathion within 7 days of an application of RebelEX CA.
- Application of RebelEX CA to fields which 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 normal annual land planning activities.
- Application of RebelEX CA to rice grown in soils with pH >7.8 or high salt content may result in serious rice injury.
- Do not apply RebelEX CA where runoff or irrigation water may flow directly onto agricultural land other than rice fields.
- Do not rotate treated land to crops other than rice for three months following application.
- Do not use RebelEX CA for weed control in wild rice.
- Do not fish or commercially grow fish, shellfish or crustaceans on treated acres during the year of treatment.
- Do not make aerial applications of RebelEX CA when wind speeds are less than 3 mph or greater than 10 mph.
- Do not make ground applications of RebelEX CA when wind speeds are greater than 10 mph.
- **Chemigation:** Do not apply this product through any type of irrigation system.

Spray Drift Management

Avoiding spray drift is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. Make applications only when there is little or no hazard from spray drift. The applicator, crop consultant, and grower are responsible for considering all of these factors when making the decision to apply this product.

Avoid all direct or indirect contact with non-target plants. Do not apply near desirable vegetation. Allow adequate distance between target area and desirable plants to minimize exposure.

Buffer Zones

Buffer zones are defined as the minimum distance between the application site and the sensitive crop. The buffer zones listed below must be followed for ground applications of RebelEX CA:

Sensitive Crops	Ground Restrictions (ft)	Aerial Restrictions
non-target cereal and grass crops	50	450 feet

such as corn, sugar cane sudangrass, sorghum, grass grown for seed, millet, and sod farms.		
all other non-target broadleaf tree and vine crops not listed	200	2 miles
cotton		1/4 mile
peaches, nectarines, all melon and all bean crops	660	2 miles if wind blowing from treatment area away from sensitive crop. 4 miles if wind blowing from treatment area toward sensitive crop.

Sensitive Areas: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

The following drift management requirements must be followed to avoid off-target movement from aerial applications:

- The distance between the outer most nozzles on the boom must not exceed 70% of the wingspan of fixed wing aircraft or 80% of the helicopter rotor width.
- Nozzle set up must use a medium spray quality category per ASABE S-572 Standard.

Where states have more stringent regulations, they must be followed.

In general, the best drift management strategy is to apply the largest droplets that provide sufficient coverage and control.

Endangered Species

If endangered plant species occur in the proximity of the application site, the following mitigation measure is required to avoid adverse effects:

- Leave untreated buffer zones of 85 feet for ground applications or 470 feet for aerial applications.

To determine whether your county has an endangered terrestrial plant species, consult <http://www.epa.gov/espp/usa-map.htm>. Endangered Species Bulletins may also be obtained from extension offices or state pesticide agencies. If the bulletin is not available for your specific area, check with the appropriate local state agency to determine if known populations of terrestrial endangered plants occur in the area to be treated.

Aerial Drift Reduction Advisory

Information on Droplet Size: For ASABE S-572 Standard compliance, see nozzle manufacturer catalogs, NAAA booklet, or USDA literature or website <http://apmru.usda.gov/> for nozzle and application conditions. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Larger droplets reduce drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size:

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets.
- **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.

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- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations and is the recommended practice.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length: Reducing the effective boom length to 70% of the wingspan of fixed wing aircraft or 80% of the helicopter rotor width may further reduce drift without reducing swath width.

Application Height: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, the applicator must compensate for this displacement by adjusting the path of the aircraft or boom on-off. Swath adjustment distance should increase with increasing drift potential (higher wind, height, smaller drops, etc.).

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Application is not allowed when wind speeds exceed 10 mph due to risk of direct drift to sensitive crops. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift. **Note:** State and local regulations with regard to minimum and maximum wind speeds during aerial application may be more restrictive. Aerial applicators should be familiar with these regulations.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is greatest when conditions are both hot and dry.

Temperature Inversions: Applications should not occur during a local, low level temperature inversion because drift potential is high. Small droplets can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of the smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Mixing Directions

Use of Adjuvants

Use of an agriculturally approved crop oil concentrate at a rate of 2.5% (v/v) or methylated seed oil or vegetable oil concentrate at specified label use rates is required with RebelEX CA. When an adjuvant is to be used with this product, Dow AgroSciences recommends the use of a Chemical Producers and Distributors Association certified adjuvant. Read and follow all use directions and precautions on adjuvant labels. Do not use organosilicone surfactants in spray mixtures with RebelEX CA.

RebelEX CA – Alone

Fill spray tank to one-half full with water. Start agitation. Add correct quantity of RebelEX CA and recommended adjuvant. Continue agitation while filling spray tank to required volume and during application.

RebelEX CA - Tank Mixes

Continuous agitation is required for tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks. Do not allow tank mixes of RebelEX CA to sit overnight.

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Do not tank mix RebelEX CA with Granite SC, Clincher CA, Clincher EZ, propanil, Regiment, Shark, Londax or other bensulfuron-containing products. Reduced weed control or increased crop injury may result if RebelEX CA is applied in tank mix combinations with or immediately following any other herbicides not listed, especially if applied under conditions of plant stress and/or advanced weed growth stages.

Tank Mix Compatibility Testing: When tank mixing RebelEX CA with other materials, a compatibility test (jar test) using relative proportions of the tank mix ingredients should be conducted prior to mixing ingredients in the spray tank. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately one-half (1/2) hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Mixing Order: Fill the tank one-third (1/3) full with water. Start the agitation. Different formulation types should be added in the following order: dry flowables (DF), wettable powders (WP), aqueous suspensions (AS), flowables (F), or liquids (L). Allow each product type to completely disperse before adding another. Continue agitation and fill tank to three-fourths (3/4) full, add the correct quantity of RebelEX CA and mix thoroughly. Finally, add any solution (S) formulations or surfactant, agitate and finish filling. Maintain agitation during filling and during application. If spraying and agitation must be stopped before the tank is empty, suspended materials may settle to the bottom. It is important to resuspend all of the settled material before continuing application. A sparger agitator is particularly useful for this purpose. Do not allow tank mixes to set overnight.

Carefully follow all mixing instructions for each material added to the tank. Initial dispersion of dry or flowable formulations can be improved by mixing with a small amount of water (slurrying) and pouring the slurry through a 20 to 35 mesh wetting screen in the top of the spray tank. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

Application Directions

Environmental Conditions and Herbicidal Activity of RebelEX CA

Best weed control results are obtained when RebelEX CA is applied to small, actively growing weeds, when daytime and nighttime temperatures are warm (60°F or more), and soil moisture is adequate to support active weed growth prior to and following application. If weeds are under drought stress, delay application until more favorable conditions resume. Application when weeds are moisture stressed or larger than the recommended size for control may result in only partial control.

Ground Application

Apply in a spray volume of 10 gpa or more when applying by ground. Use coarse or coarser nozzle spray quality per S-572 ASABE standard; see USDA literature or nozzle manufacturer guidelines. Follow nozzle manufacturer's recommendations for nozzle pressure, spacing and boom height to provide a uniform spray pattern. Follow appropriate Spray Drift Management information where drift potential is a concern. Do not ground apply RebelEX CA when wind speeds are greater than 10 mph.

Application Timing

For water seeded and drill seeded rice, apply RebelEX CA from the 1 leaf stage up to 60 days before harvest. Within this application window, application timing is dependent upon cultural practices and optimum timing for weed species present. (See Application Rates and Weeds Controlled table.) Do not apply if crop or weeds are under drought stress. A single postflood application is recommended.

One sequential application of Clincher CA can be made greater than 10 days before or after an application of RebelEX CA depending upon the rate of RebelEX CA applied. Follow all label use directions for Clincher CA.

Rate of RebelEX CA (fl oz/acre)	Maximum Sequential Rate of Clincher CA (fl oz/acre)
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16	13
18	11.5
20	10

One sequential application of Clincher EZ can be made greater than 10 days before or after an application of RebelEX CA depending upon the rate of RebelEX CA applied. Follow all label use directions for Clincher EZ.

Rate of RebelEX CA (fl oz/acre)	Maximum Sequential Rate of Clincher EZ (fl oz/acre)
16	18.5
18	16
20	14

Water Management

Fields must be partially drained to expose weeds prior to application. Residual water remaining in the field does not adversely affect weed control so long as weeds are at least 70% exposed. For delayed pin point application, do not allow excessive drying of the soil which may cause the weeds to become drought stressed, resulting in unacceptable weed control. For best results, soils should be moist at application and maintain good soil moisture after application by flushing or rainfall until establishment of permanent flood.

Re-Flood Timing

After an application of RebelEX CA, begin re-flooding 3 hours after application. For best results, fields should be completely re-flooded 24 to 48 hours after application.

Resistance Management

The mode of action of RebelEX CA is the inhibition of the acetolactate synthase (ALS) enzyme and acetyl co-enzyme A carboxylase (ACC'ase) enzymes. 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.

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 upon appropriate IPM and resistance management strategies and practices that delay or reduce the development of resistant weed biotypes. Such practices include 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 one application per year of RebelEX CA. Do not apply RebelEX CA to a field treated in the same year with an application of Granite GR or Granite CA.

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

- Always use at least the minimum specified rate of formulated product per acre and observe all use rate instructions.
- The use of herbicides with the ALS same mode of action should not be used in sequential applications with RebelEX CA unless tank mixed with an alternative mode of action product.
- ALS herbicides should not be used in consecutive years unless alternated with non-ALS herbicides.
- Herbicides should be used based upon 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

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Weeds Controlled ¹		Application Rates and Stage of Weed Development	
Common Name	Scientific Name	16 to 18 fl oz/acre	18 to 20 fl oz/acre ²
barnyardgrass	<i>Echinochloa crus-galli</i>	up to 5 leaf	up to 2 tiller
watergrass (early and late)	<i>Echinochloa oryzoides</i>		
California arrowhead	<i>Sagittaria montevidensis</i>		up to flower initiation ³
common waterplantain	<i>Alisma plantago-aquatica</i>		
ducksalad	<i>Heteranthera limosa</i>		
monochoria	<i>Monochoria</i> spp	<10" or prior to flowering ³	
ricefield bulrush	<i>Schoenoplectus mucronatus</i>		
redstem	<i>Ammannia</i> spp		
bearded sprangletop	<i>Leptochloa fusca</i> ssp. <i>fascicularis</i>	up to 4 leaf prior to tillering	tillered grasses
junglerice	<i>Echinochloa colona</i>		
red sprangletop	<i>Leptochloa panicea</i>		
Weeds Suppressed			
Gregg's arrowhead	<i>Sagittaria longiloba</i>	up to 3 leaf	up to 5 leaf
rice mimic	<i>Echinochloa</i> spp		
smallflower umbrellaplant	<i>Cyperus difformis</i>		

¹ RebelEX CA may not reliably control known ALS and ACC'ase resistant weed biotypes.

² If RebelEX CA is applied as a rescue treatment (e.g., heavy weed infestations, headed weeds and/or previously untreated areas), it should be considered an emergency salvage treatment and good control of labeled weeds should not be expected. Poor control and regrowth of treated weeds may occur.

³ Best control is achieved with applications of RebelEX CA prior to weed flowering. Make postflood applications when weeds are well emerged above the water surface. Weeds submerged at the time of application will not be controlled.

Note: Do not make more than one application or apply more than 20 fl oz of RebelEX CA per acre during the growing season.

For tank mixing options and instructions, refer to the Mixing Directions section.

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