

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Jim Baxter Dow AgroSciences 9330 Zionsville Road Indianapolis, IN 46268

JAN 4 2013

Subject:

Notification; Per PR-Notice 98-10

Keystone LA Herbicide EPA Reg. No. 62719-479

Date Submitted: November 28, 2012

Dear Mr. Baxter:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated November 28, 2012 for the product referenced above. 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 stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact me at (703) 306-0415 or davis.kable@epa.gov.

Sincerely,

Kable Bo Davis Product Manager 25

Herbicide Branch

Registration Division (7505P)

Print Form Form Approved. OPP Identifier Number United States Registration **Environmental Protection Agency** Amendment Washington, DC 20460 Other Application for Pesticide - Section I 2. EPA Product Manager 1. Company/Product Number 3. Proposed Classification Dow AgroSciences LLC/62719-479 **Bo Davis** Restricted None PM# 4. Company/Product (Name) Dow AgroSciences LLC/Keystone LA 25 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling Dow AgroSciences 9330 Zionsville Road EPA Reg. No. Indianapolis, IN 46268 Check if this is a new address Product Name Section - II. Amendment - Explain below. Final printed labels in response to Agency letter dated NOTIFICATION Resubmission in response to Agency letter dated ____ "Me Too" Application. Other - Explain below. JAN - 4 2013 Notification - 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. 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 penalities under Sections 12 and 14 of FIFRA. Section - III 1. Material This Product Will Be Packaged In: Child-Resistant Packaging Unit Packaging Water Soluble Packaging 2. Type of Container Motal Yes Plastic No No Glass if "Yes" Unit Packaging wgt. Paper-If "Yes" No. per No. per. * Certification must container Package wgt container Other (Specify) be submitted 3. Location of Net Contents Information 4. Size(s) Retail Container . Location of Label Directions On Label Container On Labeling accompanying product Label Lithograph . 6. Manner in Which Label is Affixed to Product Paper glued Stenciled ccccce Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Title Telephone No. (Include Area Code) Name Jim Baxter Regulatory Manager 317-337-4888666 8. Date Application Certification Received 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 mislaading statement may be punishable by fine or imprisonment or (Stamped) both under applicable law. Regulatory Manager 5. Date November 28, 2012 Jim Baxter

308/2E November 28, 2012

Dow AgroSciences LLC

9330 Zionsville Road Indianapolis, IN 46268 USA

dowagro.com

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

KEYSTONE® LA (A.I. ACETOCHLOR, ATRAZINE) EPA REGISTRATION NUMBER: 62719-479 NOTIFICATION OF MINOR LABEL CHANGE PER PR NOTICE 98-10

Enclosed please find labeling for the notification action of Keystone®LA. Per guidance provided by Bo Davis (U.S. EPA Product Manager - Team 25), the following change has been made by notification:

Added "Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State." to base label, cover/shipping container, and booklet. NOTIFICATION

The following change was also included in the notification action:

JAN - 4 2013

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Update trademark line

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 Keystone LA (S3F / Keystone LA / Notif /11-28-12) (25 Pages plus Registration Notes) (1

If you require further information, please contact Nestor Algarin, Regulatory Specialist at (317) 357-548. , eccec

Sincerely,

Regulatory Leader (317) 337-4388

(317) 337-4649 (FAX)

Enclosures

Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

(Base label):

RESTRICTED USE PESTICIDE

Due to Ground and Surface Water Concerns

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.

Keystone[®] LA HERBICIDE

A preemergence herbicide for control of annual grasses and broadleaf weeds in field corn, production seed corn, silage corn, sweet corn and popcorn.

Group	15 5	HERBICIDE	
	,		NOTIFICATION
ethoxymethylad atrazine: [2-chloro	ro-2'-methyl-6'-ethyl-N- cetanilide4 -4-(ethylamino)-6- o)-s-triazine] and	3.4%	JAN -4 2013
		6.3%	
Other Ingredients:	4	0.3%	
Total		0.0%	·

Contains 4 pounds acetochlor and 1.50 pounds atrazine active ingredient per gallon.

Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

Keep Out of Reach of Children CAUTION

Precautionar	y Statements
Hazards to H	umans and Domestic Animals

Causes Moderate Eye Irritation • Harmful If Swallowed

Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Some materials that are chemical resistant to this product are polyethylene and polyvinylchloride. If you want more options, follow instructions for category A on an EPA chemical-resistance selection chart.

Mixers, loaders, applicators and other handlers must wear:

· Coveralls over long-sleeved shirt and long pants

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- · Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear (If overhead exposure)
- A chemical-resistant apron when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate

See Engineering Controls for additional requirements.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls: When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing.
 As soon as possible, wash thoroughly and change into clean clothing.

First Aid

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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.

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

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. 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 apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Acetochlor 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 groundwater is shallow, may result in groundwater contamination.

["Note to Label Editor: In case of overflow text that will not fit on base label, the referral statement "See Environmental Hazards section of label booklet for Ground Water Advisory Statements." may be substituted for the following Ground Water Advisory statements on the base label.]

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils

are very permeable, i.e., well drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

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.

Nonrefillable containers 5 gallons or less:

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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

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.

Refillable containers larger than 5 gallons:

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not stored near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label or instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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, a empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Nonrefillable containers larger than 5 gallons:

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

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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 tan or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer Inherent Risks of Use and Limitation of Remedies at end of label booklet. If terms are not acceptable, 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 Est. _____

Trademark of Dow AgroSciences LLC

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

NET CONTENTS

(cover/shipping container):

RESTRICTED USE PESTICIDE

Due to Ground and Surface Water Concerns

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This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.

Keystone® LA HERBICIDE

Active Ingredients:

A preemergence herbicide for control of annual grasses and broadleaf weeds in field corn, production seed corn, silage corn, sweet corn and popcorn.

CHOUD	15 5	HERBICIDE

related triazines 16.3%
Other Ingredients: 40.3%

Contains 4 pounds acetochlor and 1.50 pounds atrazine active ingredient per gallon.

Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

Keep Out of Reach of Children CAUTION

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 Direction of the Standard.

Refer to inside of label booklet for Precautionary Statements and for Directions for Use.

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EPA Reg. No. 62719-479

EPA Est. _____

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

NET CONTENTS

(Page 1 through end):

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes Moderate Eye Irritation • Harmful If Swallowed

Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Some materials that are chemical resistant to this product are polyethylene and polyvinylchloride. If you want more options, follow instructions for category A on an EPA chemical-resistance selection chart.

Mixers, loaders, applicators and other handlers must wear:

- · Coveralls over long-sleeved shirt and long pants
- · Chemical-resistant gloves
- · Chemical-resistant footwear plus socks
- Chemical-resistant headgear (If overhead exposure)
- A chemical-resistant apron when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate

See Engineering Controls for additional requirements.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls: When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing As soon as possible, wash thoroughly and change into clean clothing.

First Aid

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person signature glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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.

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

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. 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 apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Acetochlor 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 groundwater is shallow, may result in groundwater contamination.

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable, i.e., well drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

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.

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be assessed through www.atrazine-watershed info or 1-866-365-3014. If use of this product is prohibited in your watershed, you may return unopened product to your point of purchase or contact Dow AgroSciences for a refund.

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 & CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, and encontamination, 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. **Exception:** If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Chemical-resistant footwear plus socks

Protective eyewear

Storage and Disposal

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

Pesticide Storage: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Nonrefillable containers 5 gallons or less:

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

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.

Refillable containers larger than 5 gallon:

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 mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Nonrefillable containers larger than 5 gallons:

Container Handling: Nonrefillable container. Do not reuse or refill this container. Offer for febbcling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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 tan 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.

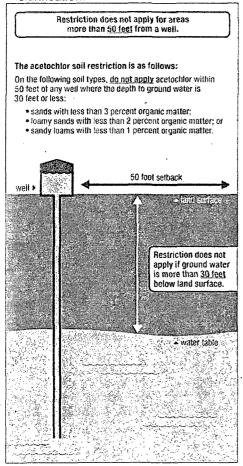
Product Information

For use only on field corn, production seed corn, silage corn, sweet corn and popcorn. Corn in this label refers to: field corn, production seed corn, silage corn, sweet corn and popcorn.

Keystone[®] LA herbicide is a unique combination of the herbicides acetochlor and atrazine plus the antidote or safener, dichlormid. While the acetochlor and atrazine provide weed control, the dichlormid safens corn against herbicide injury. Keystone LA may be applied to the surface or incorporated into the top 1-2 inch layer of soil. It may be used for control alone, or in tank mix combinations, for the weeds listed in the "Target Weeds" section of these use directions. Keystone LA controls weeds by interfering with normal germination and seedling development. Keystone LA does not control established or germinated weeds present at application.

Use Restrictions

- Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.
- On the following soil types, do not apply this product within 50 feet of any well where the depth to groundwater is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1 percent organic matter. See the figure for additional clarification.



- This product may not be mixed or loaded within 50 ft. of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or setback from runoff entry points must be planted to crop, seeded with grass or other suitable crop.
- This product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells, and sinks holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed.

Tile-Outletted Fields Containing Standpipes

To ensure protection of surface water from runoff through standpipes with tile-outlets in fields, one of the following restrictions must be used in applying this product to tile-outletted fields containing standpipes:

- 1. Do not apply this product within 66 feet of standpipes in tile-outletted fields.
- 2. Apply this product to the entire tile-outletted field and immediately incorporate it to a depth of 2-3 inches in the entire field.
- Apply this product to the entire tile-outletted field under a no-till practice only when high crop
 residue management practices are used. High crop residue management is described as a
 crop management practice where little or no crop residue is removed from the field during or
 after crop harvest.
- Do not apply Keystone LA to sweet corn as an early postemergence application
- Chemigation: Do not apply this product through any type of irrigation system.
- Do not use flood irrigation to apply or incorporate this product.
- Product must be used in a manner that will prevent back siphoning in wells, spills or improper disposale of excess pesticide, spray mixtures or rinsates.
- Do not apply under conditions that favor runoff or wind erosion of soil containing this product to non-target areas. To prevent off-site movement due to runoff or wind erosion:
 - Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion.
 Under these conditions, the soil surface should first be settled by rainfall or irrigation.
 - Do not apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow covered soils.
 - Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.
- Aerial Application: Do not apply this product using aerial application equipment.
- Do not apply when wind conditions favor drift to non-target sites. To minimize spray drift to non-target areas:
 - Use low-pressure application equipment capable of producing a large droplet spray.
 - Do not use nozzles that produce a fine droplet spray.

- Minimize drift by using sufficient spray volume to ensure adequate coverage with large droplet size sprays.
- Keep ground-driven spray boom as low as possible above the target surface.
- Make application when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid application when gusts approach 15 mph.
- Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas. Avoid spraying during conditions of low humidity and/or high temperatures. Do not apply during inversion conditions.

Maximum Atrazine Application Rates Per Calendar Year:

Maximum annual atrazine broadcast application rates for corn must be as follows:

- If no atrazine was applied prior to corn emergence, apply a maximum of 2.0 pounds active
 ingredient (contained in 5.3 quarts Keystone LA; however do not apply more than 3.0 quarts
 Keystone LA, per maximum acetochlor rate restrictions below) per acre. If postemergence
 treatment is required following an earlier herbicide application, the total atrazine applied may not
 exceed 2.5 pounds active ingredient per acre per calendar year. Note: One quart per acre
 Keystone LA delivers 0.375 pound active ingredient atrazine per acre.
- Apply a maximum of 2.0 pounds active ingredient (contained in 5.3 quarts Keystone LA; however do
 not apply more than 3.0 quarts Keystone LA, per maximum acetochlor rate restrictions below) per
 acre if a single preemergence application is made on soils that are not highly erodible or on highly
 erodible soil if at least 30% of the soil is covered with plant residues, or
- Apply a maximum of 1.6 pounds active ingredient (contained in 4.2 quarts Keystone LA; however do
 not apply more than 3.0 quarts Keystone LA, per maximum acetochlor rate restrictions below) per
 acre as a single preemergence application on highly erodible soils if less than 30% of the soil is
 covered with plant residues; or 2.0 pounds active ingredient (contained in 5.3 quarts Keystone LA;
 however do not apply more than 3.0 quarts Keystone LA, per maximum acetochlor rate restrictions
 below) per acre if only applied postemergence.
- Maximum Acetochlor Application Rates Per Calendar Year:
 Maximum annual acetochlor broadcast application rates for corn must not exceed 3.0 pounds active ingredient (3.0 quarts Keystone LA) per acre. Note: One quart per acre Keystone LA delivers 1.0 pound active ingredient acetochlor per acre.
- Preharvest Interval: Do not apply Keystone LA within 60 days of harvest for field corn forage uses ໍ້ເຂ45 ເວັດ days for sweet corn forage uses.
- Postemergence applications of atrazine to corn must be made before the crop reaches 12 inches in height.

Use Precautions

- Failure to strictly follow label directions may result in exceeding the maximum annual atraziñe use rates as stipulated by the Environmental Protection Agency.
- Note: This product contains atrazine and thus may not control weeds that are known or suspected to be triazine resistant. Following many years of continuous use of atrazine and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by atrazine and related herbicides. Where this is known or suspected and weeds controlled by atrazine are expected to be present along with resistant biotypes, it is recommended that atrazine be used in combinations or in sequence with other registered herbicides which are not triazines. If only resistant biotypes are expected to be present, use a registered non-triazine herbicide.
- Do not use Keystone LA on any crop other than field corn, production seed corn, silage corn and popcorn.
- Keystone LA should not be used on corn seed stock such as Breeders, Foundation, or Increase.
- Do not contaminate irrigation water used for crops other than corn or water used for domestic purposes.

- Do not apply Keystone LA before pre-irrigation in irrigated areas.
- Do not allow Keystone LA to contaminate feed or food.
- Keystone LA should not be stored near seeds; fertilizers, or foodstuffs.
- All containers of Keystone LA should be kept tightly closed when not in use.
- Applied according to directions and under normal growing conditions, Keystone LA will not harm the
 treated crop. During germination and early stages of growth, extended periods of unusually cold and
 wet or hot and dry weather, insect or plant disease attack, carryover pesticide residues, the use of
 certain soil applied systemic insecticides, improperly placed fertilizers or soil insecticides may create
 abnormal conditions that weaken crop seedlings. Keystone LA used under these abnormal conditions
 could result in crop injury.

Rotational Crop Restrictions:

When tank mixing with other herbicides, follow the most restrictive crop rotation guidelines on the label of each product used. The following rotational crops may be planted as indicated:

Rotational Crop	Timing or Interval
corn	Anytime - 0 months after application
sorghum, soybean(2)	Spring following application
alfalfa, barley, dry beans (3), lupin (4), millet, pearl or proso, oats, pea (6), potatoes, rye, sugar beets, sunflower, tobacco (7), triticale, wheat, wild rice	15 months after application (5)

Numbers within parentheses (-) in the table refer to Specific Rotational Crop Requirements below.

- (1) If crop treated with Keystone LA is lost, corn may be replanted immediately. Do not make a second application of Keystone LA. Do not apply Keystone LA after June 10, unless only corn will be planted the following year.
- (2) Due to the risk of atrazine carryover, injury to soybeans may occur the year following corn when planted in north central and northwest Iowa, south central and southwest Minnesota, northern Nebraska and southeast South Dakota on soils having a calcareous surface layer and relatively high pH.
- (3) Dry beans includes: adzuki, kidney, lima, navy, pinto
- (4) Lupin includes: grain, white, white sweet
- (5) Approved rotation crops list does not include any species of succulent beans and peas.
- (6) Pea includes: blackeyed, chick, cow, Crowder, field, pigeon, Southern
- (7) Because of atrazine carryover, injury may occur to tobacco.

Weed Resistance Management Guidelines

Acetochlor and atrazine, the active ingredients in this product, are Group 15 and Group 5 herbicides, conserved by based on the mode of action classification system of the Weed Science Society of America and Any weed population may contain plants naturally resistant to Group 15 or Group 5 herbicides. Such consistant weed plants may not be effectively managed using Group 15 or Group 5 herbicides but may be effectively managed utilizing another herbicide alone or in mixtures from a different Group and/or by using cultural or mechanical practices. However, any herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides. Consult your Dow AgroSciences representative, state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate actions for treating specific resistant weeds.

Best Management Practices

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is recommended. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using full labeled rates and following directions for use is important to delay the selection for resistance. Scouting

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after a herbicide application is important because it can facilitate the early identification of weed shifts and/or weed resistance and thus provide direction on future weed management practices. One of the best ways to contain resistant populations is to implement measures to avoid allowing weeds to reproduce by seed or to proliferate vegetatively. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in retarding the spread of resistant weed seed.

General principles of herbicide resistance management:

- 1. Apply integrated weed management practices. Use multiple herbicide modes-of-action with overlapping weed spectrums in rotation, sequences, or mixtures.
- 2. Use the full recommended herbicide rate and proper application timing for the hardest to control weed species present in the field.
- 3. Scout fields after herbicide application to ensure control has been achieved. Avoid allowing weeds to reproduce by seed or to proliferate vegetatively.
- 4. Monitor site and clean equipment between sites.

For annual cropping situations also consider the following:

- Start with a clean field and control weeds early by using a burndown herbicide treatment or tillage in combination with a soil-applied residual herbicide as appropriate.
- Use cultural practices such as cultivation and crop rotation, where appropriate.
- Use good agronomic principles that enhance crop competitiveness.
- Use new commercial seed that is as free of weed seed as possible.

Report any incidence of repeated non-performance of this product on a particular weed to your Dow AgroSciences representative, local retailer, or county extension agent.

Application Directions - Corn

Carriers

Liquids: Either water or liquid fertilizers such as solutions, slurries or suspensions may be used as liquid carriers. If fluid fertilizers are used, a physical compatibility test with these must be done **before combining** in the spray tank. See Appendix I for details of the compatibility testing procedure. Even if Keystone LA is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application.

Dry Bulk Fertilizer: Keystone LA may be impregnated on dry bulk fertilizer and applied as the fertilizer is spread. See Appendix II for directions and restrictions including which fertilizers are compatible.

Adding to Spray Tank

The spray tank must be clean, thoroughly rinsed and decontaminated before adding either Keystone LA: ccc c alone or with tank mix combinations. If water is used as the carrier, use clean water.

Used Alone: When Keystone LA is used alone, add the specified amount to the spray tank when the tank is half filled with carrier, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

Tank Mixed: If a tank mixture is used, it is recommended that a compatibility test be done before actual tank mixing. See Appendix I for details on the procedure for such a test.

Once compatibility is confirmed for the tank mix, fill the tank half full of carrier. Start and continue agitation throughout mixing. All return lines to the spray tank must discharge below the liquid level. Add components in the following order of formulation:

- If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Agitate during the procedure.
- If a flowable formulation is used, add slowly through screen into the tank. Mixing and compatibility may be improved when the flowable is diluted with water before adding to the tank.
- Add Keystone LA next.
- Add ammonium sulfate then Durango[®] DMA[®] herbicide, 2,4-D herbicide, and a nonionic surfactant last, if needed.
- Complete filling the sprayer tank and continue agitation.
- Batches should be mixed and applied the same day.

Volume

Liquid: Use a minimum of 10 gallons per acre in broadcast boom equipment for ground applications.

Dry Bulk Fertilizer: Use a minimum of 200 pounds of dry bulk fertilizer per acre. See Appendix II for directions and restrictions.

Pressure

If liquid carriers are used, the pressure at the nozzle should be 15 to 40 psi to ensure good distribution in the spray pattern. Use appropriate nozzles and 50-mesh or coarser screens, if needed. Maintain sufficient agitation to ensure the mixture is suspended in the spray tank.

Application Timing and Methods

For the optimum period of effective weed control during the time most critical to corn production, preplant applications of Keystone should occur as close as possible to planting. Preemergence applications should occur as close as possible to planting, but prior to weed emergence.

Note: Do not apply Keystone LA to sweet corn as an early postemergence application.

Early Preplant: On medium and fine textured soils (Table 1), Keystone LA may be applied up to 30 days prior to planting.

Preplant Incorporation: Keystone LA and certain tank mixes may be mechanically incorporated in the color top 2 inches of the soil with field cultivators, discs, or spring tooth harrows at any time within 14 days prior to planting. Improper incorporation, excessive crop residues, or poor soil tilth may result in erratic, streaked or otherwise unsatisfactory weed control. Avoid moving or shaping soil after incorporation.

Preemergence Surface: Keystone LA and certain tank mixes may be applied to the soil surface as a c c c c broadcast or banded application. Precipitation or sprinkler irrigation of at least 0.25 inch is required to core bring Keystone LA into contact with germinating seeds. If rain or sprinkler irrigation does not occur within c c 7 days after application, weed control may be improved by using a rotary hoe, or similar device at the herbicide. The device used should be run at a shallow depth to prevent disturbing the corn c seed. Do not remove Keystone LA from the weed control zone or dilute it with untreated soil.

Postplant-Preemergence: Keystone LA may be applied immediately after planting but prior to corn emergence. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe, or similar device, to shallowly incorporate the herbicide. Do not disturb the germinating corn. Do not remove Keystone LA from the weed control zone or dilute it with untreated soil.

Banding-Preemergence: Keystone LA may be applied in a 10 to 14 inch band after corn planting but prior to corn emergence. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe or similar device to incorporate the herbicide. Do not

disturb the germinating corn. Do not remove Keystone LA from the weed control zone or dilute it with untreated soil.

Early Postemergence: Keystone LA may be applied early postemergence to corn up to 11" tall. Applications must be made prior to weed seedling emergence or in a tank mixture that controls the emerged weeds. Read and follow restrictions and directions on tank mix product labels.

Sprinkler Irrigation: Do not apply Keystone LA through sprinkler irrigation systems. Use a sprinkler system only to incorporate Keystone LA after application. After Keystone LA has been applied, a sprinkler irrigation system set to deliver 0.25 to 0.75 inch of water per acre may be used to incorporate the product. Using more than 0.75 inch of water could result in reduced performance. On sandy soils low in organic matter, use no more than 0.5 inch of water. Do not use flood irrigation to apply or incorporate Keystone I A

Planting

Planting should be done as close to the time of application of Keystone LA as possible. This allows Keystone LA to provide effective weed control during the time it is most critical in the production of corn.

Cultivation

Cultivation should be delayed as long as possible. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in improved weed control. If Keystone LA was incorporated, cultivate to a depth of less than half the depth of incorporation.

If cultivation is necessary due to soil crusting, compaction, or escaped weeds, adjust equipment to run shallow and minimize soil movement. This will decrease the possibility of diluting or moving the herbicide from the weed control zone.

Soil Texture and Organic Matter

The use rate of Keystone is determined by a combination of two factors, soil texture and organic matter, which must be determined prior to application. Soils are grouped into three textural classes (coarse, medium and fine), as outlined in Table 1.

Table 1: Soil Texture Groupings for Keystone LA Use Rate Selection.

Coarse	Medium	Fine
Sand ·	Loam	Silty Clay Loam
Loamy Sand	Silt	Sandy Clay Loam
Sandy Loam	Silt Loam	Sandy Clay
		Silty Clay
•		Clay Loam
		Clay

Use Rates in Conventional Tillage Systems

Table 2: Keystone LA Use Rates (qt/acre) by Soil Texture and Organic Matter Content in Conventional Tillage Systems.

The following use rates are for preplant incorporated, preemergence, and early postemergence applications (see Application Timing and Methods). Consult Table 3 if no-till applications are made or the product is applied more that 14 days prior to planting under conventional tillage.

Soil Texture	Soil Organic Matter Content		
	Less than 3%	3% or Greater	
Coarse	1.6- 1.8	1.8 - 2.0	
Medium	1.8 – 2.1	1.9 – 2.1	
Fine	1.9 – 2.2	1.9 – 3.0	

Organic Matter: If the organic matter content of the soil is at the lower end of the range, use the lower rates in the rate range provided in Table 2. If the organic matter content is at the upper end of the range, use the higher rates.

Weed Infestation: If the weed infestation is lighter, use a rate at the lower end of the rate range for the soil texture and organic matter content. If the weed infestation is heavier, use the higher rates in the rate range for the soil conditions.

Use Rates for Reduced Tillage Systems

Keystone LA may be used in reduced or no-tillage systems. Applications may be made from up to 30 days prior to planting or after planting but before the corn emerges. Optimal weed control will be obtained when applications are made as close to planting as possible but before the corn emerges. It is recommended that a burndown herbicide such as Durango DMA or 2,4-D be tank mixed with Keystone LA in reduced or no-tillage systems to control emerged weeds.

Table 3: Keystone LA Use Rates † (qt/acre) by Soil Texture in Reduced or No-Tillage Systems

`	Time Of	Application Relative To Plan	nting
Soil Texture	Greater Than 14 Days Before Planting	Less Than 14 Days Before Planting or After Planting But Prior to Corn Emergence	After Planting and/or Corn Emergence
Coarse	Do not apply more than 14 days before planting on coarse textured soils	1.6 – 1.9	1.6 – 1.9
Medium	1.8 – 2.5	1.8 – 2.1	1.8 – 2.1
Fine	2.1 – 3.0	1.9 – 3.0	1.9 – 2.5 c

[†] Rates are for single applications. Split applications of Keystone LA may be used. Apply at least 60% of the specified rate up to 30 days before planting and the remaining balance, up to 40%, at planting

Band Applications

For band applications, use row and bandwidth measurements (inches) to calculate the africunt of Keystone LA to be applied per acre as follows:

Band width in inches
Row width in inches

Rate per acre for a broadcast treatment

Amount of Keystone LA to apply per acre

Weeds Controlled

Keystone LA applied as directed in this label will control or partially control the weeds listed in Table 4. Additional weeds may be controlled with tank mixes. See the "Tank Mix Combinations" section of this label for tank mix directions. Always consult the tank mix product labels for specific use rates and directions. Always follow the most restrictive label when tank mixing Keystone LA with another product. Keystone LA may be tank mixed with any other registered corn product as long as compatibility is verified and it is not prohibited by the label of the tank mix product. Note: This product contains atrazine and thus may not control weeds that are known or suspected to be triazine resistant.

Table 4: Weeds Controlled or Partially Controlled by Keystone LA at Specified Use Rates.

·. ·	C = Control PC = Partial		C = Control PC = Partial
Grasses and Sedges	Control	Broadleaves	Control
barnyardgrass	C	beggarweed, Florida	C
crabgrass spp.	С	carpetweed	С
crowfootgrass	С	cocklebur (2)	PC .
cupgrass, southwestern	С	galinsoga	C
cupgrass, woolly	PC	jimsonweed	C .
foxtail, giant	С	kochia	PC
foxtail, green	С	lambsquarters, common	C
foxtail, robust (purple, white)	C	morningglory spp.	C
foxtail, yellow	C	nightshade, black	С
goosegrass	С	nightshade, hairy	C ·
johnsongrass, seedling	PC	pigweed, redroot	C
millet, foxtail	С	purslane, common	С
millet, wild proso	PC	pusley, Florida	C
nutsedge , yellow (1,2)	C	ragweed, common	C
panicum, browntop	C	ragweed, giant	PC PC
panicum, fall	С	sicklepod	C
panicum, Texas	C (3)	sida, prickly	C
rice, red	C	smartweed spp.	C .
sandbur, field	PC	velvetleaf (2)	PC PC
shattercane	PC	waterhemp, tall	С
signalgrass, broadleaf	C (3)		
sprangletop, red	С		
witchgrass	C		

- (1) For best control of yellow nutsedge use preplant incorporation or tank mix with additional Surpass EC or atrazine.
- (2) Activity may be reduced under dry conditions or following early (more than 14 days) preplant applications. Sequential herbicides or additional atrazine may be needed for complete control.
- (3) Best control is achieved when Keystone LA is applied within 5 days of planting and rainfall occurs shortly after application or mechanical incorporation is used to activate the herbicide. If rainfall description not occur within 7 days after application, shallow cultivation will enhance activity. Excessive rainfall after application may reduce control. Under adverse weather conditions and/or heavy infestation of cultivation or follow-up herbicide may be needed.

Keystone LA Tank Mix Combinations

When tank mixing or sequentially applying atrazine or simazine or products containing either a.i. to corn, the total pounds of simazine and/or atrazine applied (lb ai/A) must not exceed 2.5 pounds of active ingredient per year.

For all applications, do not exceed the maximum rate of acetochlor as specified in the Maximum Acetochlor Application Rates Per Calendar Year section of this label.

Use of Spray Adjuvants

Keystone LA is a preemergence herbicide for which spray adjuvants have little or no effect on performance. However, several herbicides used in tank mixtures with Keystone LA require use of adjuvants to aid in the burndown of emerged weeds. Use only those adjuvants specified on tank mix product labels and approved for agricultural crop use. Adjuvants and/or low rate liquid fertilizers (28%.

30% or 32% UAN) or ammonium sulfate (AMS) may be used with tank mixes applied preplant or preemergence to the crop. Note: Do not use liquid fertilizer as the carrier when Keystone LA is applied postemergence to corn as severe injury may result. The addition of liquid fertilizers used as adjuvants with Keystone LA tank mixes applied postemergence to corn under environmental stress conditions may result in significant crop injury and should be avoided if the risk of crop injury is unacceptable.

Preemergence Tank Mix Combinations

Tank mix combinations may be used in either conventional, reduced or no-till systems and be applied by the same methods and at the same timings as Keystone LA unless otherwise specified in the tank mix product label.

When tank mixing Keystone LA with atrazine, do not exceed the maximum allowable rate of atrazine in your county or state. In some atrazine management areas, atrazine is more restricted. Consult your county extension office or state university for further information.

Conventional Tillage Corn (Keystone LA Plus):

Tank Mix Herbicide †	Comments	
Atrazine 4L	 Preplant surface, preplant incorporated, preemergence. If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide Longer growing season areas High rainfall areas Heavy broadleaf weed pressure 	
Balance Pro	 Not labeled in all states, please refer to the Balance Pro label for precautionary statements, directions for use, geographic and other restrictions Field corn only Refer to the use rates section for Keystone LA for minimum use rates 	
Hornet WDG	Tank mixing 3.0 – 4.0 oz/acre Hornet® WDG herbicide provides consistent control of velvetleaf, lambsquarters, pigweed species, waterhemp and triazine resistant varieties of these species. Will also provide improved control of cocklebur, common ragweed, giant ragweed, common sunflower and jimsonweed.	
Princep 4L	Improve crabgrass or fall panicum control. c c c c c c c c c c c c	
Python WDG	Tank mixing 0.8 – 1.0 oz/acre Python® WDG herbicide provides consistent control of velvetleaf, lambsquarters, pigweedespecies, waterhemp and triazine resistant varieties of these species.	
Surpass EC	Tank mix 1 pt/acre for enhanced grass and nutsedge control contro	

Formulations that are not listed may be used: Perform a compatibility test and check the label of the tanks mix product label for application rates, applicable use directions, precautions and limitations.

Reduced or No-Tillage Corn (Keystone LA Plus):

Tank Mix Herbicide [†]	Comments
Atrazine 4L	 Longer growing season areas High rainfall areas Heavy broadleaf weed pressure If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide
Balance Pro	 Not labeled in all states; refer to the label for Balance Pro label for precautionary statements, directions for use, geographic and other use restrictions

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Banvel/Clarity Marksman	 Field corn only Refer to use rate section for Keystone LA for minimum use rates Apply preplant or preemergence in reduced/ no-till systems for burndown of existing weeds Preemergence on all soils; medium and fine textured with >2% OM 	
Durango DMA, Roundup WeatherMAX, Touchdown	Burndown existing weeds	
Gramoxone Inteon	Control annuals, suppress perennials	
Pendimax® / Prowl	Preemergence to early postemergence (up to 3" tall corn) but before weeds are more than 1" tall.	
Princep 4L	Improved crabgrass or fall panicum control	
Surpass EC	Enhanced grass and nutsedge control	
2,4-D	Burndown existing weeds	

Formulations that are not listed may be used: Perform compatibility test and check the product label for directions and precautions.

Keystone LA and Durango DMA, 2,4-D

In reduced or no-tillage corn, Durango DMA, Roundup WeatherMAX, Gramoxone Inteon, Touchdown, and/or 2,4-D can be used to burn down existing weeds. Burndown herbicides should be applied to emerged weeds when they are small; weeds less than 6 inches in height are easiest to control. Consult the burndown product labels for further information on weeds controlled.

Postemergence Tank Mix Combinations

When tank mixed, refer to the tank mix product label and follow the additional use directions given in this table:

Keystone LA can be applied to corn up to 11" tall.

Postemergence Tank Mixes (Keystone LA Plus):

Tank Mix Herbicide	Rate	Comments
Hornet WDG	2-5 oz/acre	 Always add NIS at 0.25% v/v or COC at 1% v/v.
Aim herbicide	0.3 oz/acre	Always add a NIS at 0.25% v/v.
Banvel Clarity Marksman	0.5 - 1.0 pt/acre 0.5 - 1.0 pt/acre 2 - 3.5 pt/acre	 Early postemergence up to 8" tall corn on all soils. If grasses are more than 2- leaf stage, combine with another herbicide to control these weeds.

[D	1.5 = 1/2===	Defeates		
Buctril	1.5 pt/acre	Refer to product label for use directions.		
Buctril/atrazine	2.0 pt/acre	Refer to label for Shotgun herbicide for timing		
Shotgun herbicide	2 - 3 pt/acre	and use directions.		
Atrazine	0.5 - 2.0 lb ai/acre	 Preplant surface, preplant incorporated, 		
		preemergence or early postemergence (up to 8"		
		tall corn). If emerged weeds are greater than		
-		1.5 inches tall at the time of application, add an		
	·	appropriate postemergence herbicide. Note: The		
· ·		maximum atrazine application rate for corn is 2.5		
		pounds atrazine active ingredient per acre per		
	1000	calendar year.		
Distinct	4.0 - 6.0 oz/acre	Always add a NIS at 0.25% v/v and 1.25% UAN.		
		Can be applied up to 10-inch corn.		
Liberty	16 - 28 oz/acre	For use on liberty tolerant corn only. Apply to		
		grass and broadleaves up to 6" tall. Do not add		
,		additional surfactant.		
. Lightning	1.28 oz/acre	For use on Clearfield corn only. Use a NIS at		
		25%v/v and a liquid nitrogen fertilizer at 1 - 2 qt		
Pendimax / Prowl	1.9. 2.6 -1/2020	per acre or ammonium sulfate at 2.5 lb per acre.		
rendimax / Prowl	1.8 - 3.6 pt/acre	Preemergence to early postemergence (up to 3" The state of th		
<u> </u>	100	tall corn) but before weeds are more than 1" tall.		
Pursuit 2.5L	4.0 fl oz/acre	Use only on Clearfield varieties.		
Pursuit 70DG	. 1.4 fl oz/acre	Apply preplant surface, preplant incorporated,		
·		preemergence or early postemergence (up to 3"		
1		tall weeds).		
Resource	4.0 - 6.0 oz/acre	Apply to weeds less than 5" tall. Add a crop oil		
		concentrate at 1 - 2 pt/acre and either 28%		
1 .	-	nitrogen at 2% v/v or ammonium sulfate at 2.5		
	,	lb/acre. May cause some burn or spotting to		
·		corn leaves.		
Spirit	1.0 oz/acre	Always add crop oil concentrate at 1% v/v.		
		See label for geographic restrictions.		
2,4-D Ester	See Label			
2,4-D Ester	Gee Fanel	Apply preplant surface or preemergence to control operand broadlast woods in page 6.55555.		
4 7514/00	4/4 2/2/	control emerged broadleaf weeds in corn.		
Accent 75WDG	1/4 - 2/3 oz/acre	Minimum Keystone LA use rates (qt/acre):		
Beacon 75WDG	0.76 oz/acre	Soil <3%OM 3-7%OM >7%OM		
Basis	1/4 - 2/3 oz/acre	Coarse 1.4 1.4 gccccc 1.8 c		
Steadfast	0.75 oz/acre	Medium 1.4 1.4 1.6 2.5 1.8 6 1.9 - 2.1 6 1.9		
1		Fine 1.4 1.4 - 1.6 cccc 2.1 ° cc ° c		
	·	• Always add NIS at .25% (v/v); and in addition if a c		
1		applied in dry conditions, add 4% (v/v) clear cool		
1		liquid fertilizer.		
		Banvel, Clarity, Marksman, Buctril, Buctril/		
		atrazine may be added to this mixture to provide		
		burndown and residual control of broadleaf		
		weeds.		
Basis Gold	. 14.0 oz/acre	Minimum Keystone LA use rates (qt/acre):		
, Daoio 00ia		Soil <3%OM 3-7%OM >7%OM		
		Coarse 1.4 1.4 1.8		
,		1		
		1		
		1		
		Always add crop oil concentrate at 1.0% v/v or		
		under dry arid conditions, 2.0% v/v and 28%		
		liquid nitrogen at 2 qt/acre or ammonium sulfate		

		 at 2 lb/acre. Banvel, Clarity, Marksman, Buctril, or Tough herbicide may be added to this mixture to provide burndown and residual control of broadleaf weeds.
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Appendix I

Procedure for Testing the Compatibility of Keystone LA and Tank Mixes with Fluid Fertilizers.

Since fluid fertilizers vary, the following procedure is suggested for determining whether Keystone LA may be combined with a specific fluid fertilizer for spray tank application.

Materials Needed:

- · Keystone LA and any tank mix products.
- Fluid fertilizer to be used.
- Adjuvant for fertilizer tank mix: Use any adjuvant cleared for use on growing crops under 40 CFR 180.1001 to improve the compatibility of Keystone LA with fluid fertilizers. The adjuvant that provides the best emulsification depends on the specific fertilizer under consideration.
- · Two 1 quart, wide mouth glass jars with lid or stopper.
- Measuring spoons (a 25 ml pipette or graduated cylinder provides more accurate measurement).
- Measuring cup, 8 ounces (257 ml).

Procedure:

- 1. Pour a pint (about 473 ml) of the fluid fertilizer into each of the quart jars.
- 2. Add Keystone LA and any tank mix combination to the jars. The order of addition is wettable powders first with mixing, followed by flowables with mixing and the EC's last. The rate of wettable powders and dry flowables is 1½ teaspoon per pound of product per acre to be applied. EC's should be added at the rate of ½ teaspoon for each pint per acre to be applied. Premixing the wettable powders in 1 ounce of water before adding to the pint of fluid fertilizer will improve the compatibility of the final mixture.
- 3. Add 1/2 teaspoon (2 ml) adjuvant to one of the jars, label it as "with", and mix. The rate of ½ teaspoon per pint is equal to 3 pints of adjuvant per 100 gallons of fluid fertilizer.
- 4. Close both jars with lids or stoppers and mix the contents by turning the jars upside down ten times.
- 5. Inspect the surface and body of the mixtures:
 - (a) Immediately after completing the jar inversions
 - (b) After allowing the jars to stand quietly for 30 minutes
 - (c) And then again after turning the jars upside down 10 times after the 30 minute inspection

Evaluation:

If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with 10 jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with adjuvant is satisfactory but the mixture without adjuvant is not, be sure to use the adjuvant in the spray tank. Add the adjuvant first at a rate of 3 pints per 100 gallons of fluid fertilizer. Foaming may be minimized by using only moderate agitation. If considering the mixtures, the combination should not be used.

Appendix II

Dry Bulk Fertilizer Impregnation

Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm fertilizer impregnation is prohibited. No more than 500 tons of bulk fertilizer can be impregnated per day. No single facility may impregnate fertilizer with this product for more than 30 days per calendar year.

The commercial facility impregnating the dry bulk fertilizer must inform, in writing, the user (applicator) of the dry bulk fertilizer that:

- Applicator must wear long-sleeved shirt, long pants, shoes, and socks
- The restricted entry interval is 12 hours.

All individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the Keystone LA or Keystone LA plus atrazine.

When applying Keystone LA alone or in tank mixes with dry bulk fertilizers, follow all directions for use and precautions on the respective tank mix product labels regarding rates, soil texture, application methods and rotational restrictions. Use a minimum of 200 pounds dry fertilizer per acre.

Table 5: Approved Dry Fertilizer Ingredients for Use with Keystone LA.

Fertilizer	N.	Р	K
Ammonium Phosphate-Sulfate	16	20	0
Ammonium Sulfate	21	0	0
Diammonium Phosphate	18	46	0
Monoammonium Phosphate	. 11	56	0
Potassium Chloride	0	0	60
Potassium Sulfate	0	0	52
Urea †	45	0	0

[†] Some ureas may be phytotoxic when high rates are applied to corn. Use only urea rates known to be safe for corn application.

For impregnating the pesticides on dry fertilizers, use an appropriate mixer equipped with suitable spraying equipment. The spray nozzles should be positioned inside the mixer to provide uniform spray coverage of the tumbling fertilizer. The Keystone LA should be sprayed uniformly onto the fertilizer using a fine spray pattern. Tank mix components may be applied as separate ingredients with powders and edological flowables added first or they may be mixed in a slurry in the proper ratio and added jointly. Keystone LA may also be impregnated on the go and applied with pneumatic applicators.

The following table provides a reference to determine the amount of Keystone LA to be inked per ton of dry bulk fertilizer for a range of herbicide rates.

Fertilizer Rate		Keystone LA Fertilizer Impregnation Rate Conversion Table Quarts of Keystone LA per Ton of Fertilizer to Deliver:		
(lb per acre)	Acres per Ton	1.6 qt/acre	2.0 qt/acre	3.0 qt/acre
200	10	16.0	20.0	30.0
250	8	12.8	16.0	24.0
300	6.7	10.7	13.3	. 20.0
350	5.7	9.1	11.4	17.1
400	5	8.0	10.0	15.0
450	4.5	7.1	8.9	13.3

To determine the amount of Keystone LA needed for other fertilizer rates, use the following formula:

<u>Keystone LA (quarts/acre)</u> X 2000 = Quarts of Keystone LA Pounds of fertilizer/acre per ton of fertilizer

If the herbicide/fertilizer mixture is too wet, use of a drying agent is required to provide a dry, free-flowing mixture. For mixtures to be used in spinning-disc applicators, Micro-Cel E calcium silicate powder (Manville, Filtration & Minerals) is recommended for use as a drying agent. Mixtures to be used in pneumatic applicators should use Micro-Cel E or Agsorb 16/30 RVM-MS granular clay (Oil-Dri Corporation). The drying agents should be added separately and uniformly to the prepared pesticide/fertilizer mixture, in a quantity that is sufficient to provide a suitable free-flowing mixture. Generally, less than 2% Micro-Cel E or 5% Agsorb 16/30 RVM-MS by weight is required:

Precaution: To avoid potential for explosion, do not impregnate Keystone LA on ammonium sorbate nitrate, potassium nitrate, or sodium nitrate fertilizer or fertilizer blends. Do not impregnate on single (0-20-0) or triple (0-46-0) super phosphate. Do not impregnate on agricultural limestone because the Keystone LA will not be absorbed.

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