

FEB 12 1999

John J. Jachetta, Ph.D.
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268-1054

Dear Dr. Jachetta:

Subject: Amended Registration
FirstRate Herbicide
EPA Registration No. 62719-275
Your Submission Dated January 22, 1999

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. In the label on page six, reinstate the Use Limitations and Preharvest Intervals that appear on the last accepted label. You added the restrictions that appear on the supplemental labeling for this product accepted on Feb. 2, 1999 but did not add directions for two post-emergent applications.

b. Verify that the following pesticide products are registered for application to soybeans. We could not locate them in our computer data base by these names and could not verify that they are registered for application to soybeans.

Action, Concert, Reliance, and Synchrony

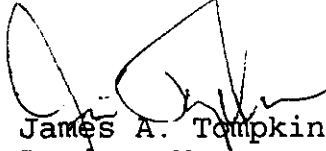
2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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A stamped copy of the labeling is enclosed for your records.

Sincerely yours,



James A. Tompkins
Product Manager (25)
Herbicide Branch
Registration Division (7505C)

Enclosure

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(Base Label):

(Logo) Dow AgroSciences LLC

FirstRate*

For broadleaf weed control in soybeans.

Active Ingredients:

cloransulam-methyl: N-(2-carbomethoxy-6-chlorophenyl)-5-ethoxy-7-fluoro(1,2,4)triazolo-[1,5-c]pyrimidine-2-sulfonamide 84%

Inert Ingredients 16%

Total Ingredients 100%

**ACCEPTED
with COMMENTS
in EPA Letter Dated:
FEB 12 1999**

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 62719-275
62719-275

Contains 0.84 pounds of active ingredient per pound of product.

US Patent Number: 5,163,995

Keep Out of Reach of Children

CAUTION PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Eye Irritation • Harmful If Absorbed Through Skin

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

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

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

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Environmental Hazards

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 washwaters.

This chemical and its transformation products demonstrate the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

This chemical can contaminate surface water through spray drift.

Under some conditions, this chemical, and/or its transformation products, may have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several weeks post-application. Vulnerable conditions include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

Agricultural Use Requirements

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

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

Notice: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" elsewhere on this label.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

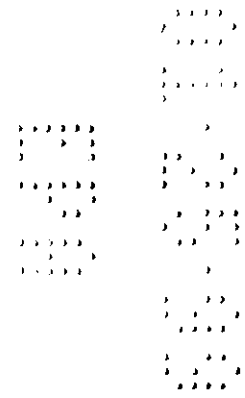
Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-275

EPA Est. _____

*Trademark of Dow AgroSciences LLC
Dow AgroSciences LLC o Indianapolis, IN 46268 U.S.A.

Herbicide
Net Weight __ Water Soluble Packets



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(Label Booklet Cover):

(Logo) Dow AgroSciences LLC

FirstRate*

For broadleaf weed control in soybeans.

Active Ingredients:

cloransulam-methyl: N-(2-carbomethoxy-6-chlorophenyl)-5-ethoxy-7-fluoro(1,2,4)triazolo-[1,5-c]pyrimidine-2-sulfonamide 84%

Inert Ingredients 16%

Total Ingredients 100%

Contains 0.84 pounds of active ingredient per pound of product.

US Patent Number: 5,163,995

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CAUTION PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Agricultural Use Requirements

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

Refer to inside of label booklet for additional precautionary information including Personal Protective Equipment (PPE) and Directions for Use including Storage and Disposal.

Notice: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" elsewhere on this label.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

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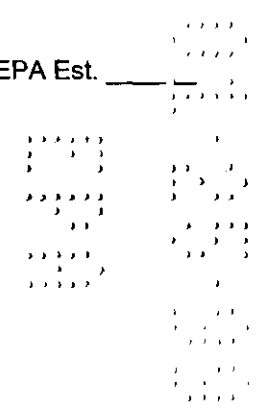
EPA Reg. No. 62719-275

EPA Est. _____

*Trademark of Dow AgroSciences LLC
Dow AgroSciences LLC o Indianapolis, IN 46268 U.S.A.

Herbicide

Net Weight __ Water Soluble Packets



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Directions for Use

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exemptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
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
- Waterproof gloves
- Shoes plus socks

Storage and Disposal

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

Storage: Store in original container only. In case of leak or spill, contain material with absorbent materials and dispose as waste.

Disposal: Wastes resulting from the use of this product may be disposed of on site according to label use directions or at an approved waste disposal facility.

Container Disposal: When all packets are used, dispose of empty package in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

General Information

FirstRate* herbicide controls many economically important broadleaf weeds in soybeans. FirstRate may be applied preplant incorporated, preplant surface, preemergence or postemergence.

Use Precautions and Restrictions

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involved 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 specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

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 which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Handling Precautions for Water Soluble Packets: Do not remove water soluble packet from overpack except for immediate use. Do not allow water soluble packet to come into contact with water prior to use. Do not handle water soluble packet with wet hands or wet gloves. Carefully reseal overpack containing unopened water soluble packets and protect package from moisture.

Use Limitations

- Do not make more than one soil application during a single growing season.
- ~~Do not make more than one postemergence application during a single growing season.~~
- Do not apply more than 0.75 oz per acre for FirstRate as a soil application (preplant or preemergence).
- Do not apply more than 1.05 oz per acre of FirstRate during a single growing season.

Read and carefully follow all applicable directions, precautions and restrictions on labeling for other products used in combination with FirstRate.

Preharvest Interval:

- Do not harvest soybeans for forage or hay for 14 days after application of FirstRate.
- Do not harvest soybeans for 65 days after application of FirstRate.
- When more than 0.3 oz/acre of FirstRate is applied postemergence, the preharvest interval for soybeans is 70 days and the preharvest interval of soybean forage or hay is 25 days.

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Aerial application of this product is prohibited.

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

Do not apply under conditions which favor runoff or wind erosion of soil containing FirstRate 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 ground.
- Do not apply to soils when saturated with water.

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- 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.

Do not apply when weather 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.
- Spray when conditions are calm or wind speed is low. Do not spray when wind is gusting or steady wind speed is greater than 10 mph.

Iron Chlorosis: There are isolated geographic areas where soil-induced iron chlorosis routinely occurs. In these areas, the severity of iron chlorosis symptoms or other nutrient induced crop injury may increase when FirstRate is soil-applied.

Crop Rotation Interval for Common Crops

Follow the crop rotation restrictions on the label of each product used. Unusual climatic or environmental conditions that may increase the likelihood of rotational crop (i.e., corn, sugar beets, sunflowers) sensitivity include lower than normal rainfall and/or soil temperatures in the fall and spring; and/or soil pH extremes.

Numbers in parentheses (-) refer to "Specific Crop Rotation Information".

Crop	Rotation Interval ^{†(1)} (Months)
soybeans	0
wheat	3
alfalfa, <u>field corn</u> , <u>seed corn (2)</u> , cotton, peanuts, rice, sorghum, <u>dry</u> <u>beans</u> , <u>snap beans</u>	9
<u>sweet corn</u> , <u>popcorn</u>	18
sugar beets, sunflowers, tobacco (3)	30 ^{††} (3)

Specific Crop Rotation Information:

^{†1} Minimum number of months that must pass before planting other crops after application of FirstRate at up to 0.75 oz/acre soil-applied and/or 0.3 oz/acre postemergence. Planting of these crops prior to the rotation interval indicated may result in serious crop injury.

2. **Hybrid Seed Production:** Corn inbred lines grown for hybrid seed production may be injured the growing season following an application of FirstRate. Inbred lines should be thoroughly tested for crop tolerance before rotating to large acreage. While growers are not prohibited from rotating to seed corn in the growing season following an application of FirstRate, Dow AgroSciences will not accept responsibility for any crop injury on field corn grown for seed following an application of FirstRate.

3. Transplanted tobacco may be planted 10 months after application of 0.3 oz/acre of FirstRate. Tobacco in seedbed nurseries may be planted 18 months after application of 0.3 oz/acre of FirstRate and following a successful field bioassay. A rotation interval of 30 months and a successful field bioassay is required for all applications of FirstRate greater than 0.3 oz/acre.

^{††} **Note:** Rotation to sugar beets, sunflowers, tobacco, and all other crops requires a 30 month rotation interval and a successful field bioassay.

Field Bioassay Instructions: Using typical tillage, seeding practices, and timings for the particular crop, plant several strips of the desired crop variety across the field previously treated with FirstRate. Plant the strips perpendicular to the direction FirstRate was applied. The strips should also be located so that

different field conditions are encountered, including differences in soil texture, pH, and drainage. If the crop does not show visible symptoms of injury, stand reduction, or yield reduction, the field can be seeded with the test crop ~~in the growing season following the bioassay~~. If visible injury, or stand reduction, or yield reduction occurs, the test crop should not be seeded, and the bioassay must be repeated the next growing season.

Soil and Postemergence Application Instructions

Apply with ground equipment using a standard low pressure (20 to 40 psi) herbicide sprayer equipped with nozzles that provide uniform coverage. Use sufficient spray volume to provide uniform coverage. A spray volume of 10 to 40 gallons per acre is recommended for either soil or postemergence applications. Maintain sufficient agitation during mixing and spraying to ensure a uniform spray mixture. Screens in spray lines and nozzles should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

Spray Preparation

To calculate the total number of water soluble packets required for your spray mix:

1. Determine the number of acres to be treated.
2. Divide the number of acres to be treated by the acres/packet value that corresponds to the desired rate. See rate tables for broadcast application rates and corresponding acres per packet.

Note: If the calculated number of packets does not equal a whole number (e.g., 13.5 packets), round up to the next whole number (i.e., 14 packets).

FirstRate Applied Alone

FirstRate herbicide water dispersible granules are packaged in water soluble packets. Thorough mixing prior to and during application is required.

Note: The film used in water soluble packets is not soluble in liquid fertilizer. If applied in liquid fertilizer, FirstRate **must be** pre-mixed with water to form a slurry and then added to the liquid fertilizer solution. Pre-mixing may also be used if making an application in water. See pre-mixing instructions below.

Mixing Instructions:

1. Fill the tank with 1/2 of the total amount of water or liquid fertilizer required for the load
2. Start agitation.
3. Add water soluble packets by opening the overpack and adding water soluble packet (product in transparent film) directly to the spray tank while agitating and allow time to disperse. Do not open water soluble packets. Water soluble packets will float on the surface until the water soluble film is dissolved and product is released. Handling packets with hands should be minimized. Do not handle if hands or gloves are wet. If liquid fertilizer is being used as the spray carrier rather than water, pre-mix the water-soluble packets as described below before adding to the spray tank.
4. After water soluble packets of FirstRate have completely dissolved (approximately 5 minutes), add non-ionic surfactants or other adjuvant materials.
5. Before spraying, make sure that water soluble packets have completely disintegrated and product is thoroughly mixed with the spray carrier. Depending on the water temperature and the degree of agitation, the packet and its contents should be completely dispersed within 5 minutes after being added to the spray tank.
6. Continue agitation while filling the spray tank to the required volume.
7. To ensure a uniform spray mixture, continuous agitation is required during application. If product is allowed to settle, thoroughly agitate to resuspend the mixture before spraying. Apply within 24 hours of mixing. Weed control with FirstRate which has been mixed and allowed to stand for more than 24 hours may be reduced.

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Pre-mixing (Slurry) of Water Soluble Packets: The film used in water soluble packaging for FirstRate is not soluble in liquid fertilizer solutions. **In order to add FirstRate to liquid fertilizer carrier, the product must be premixed with water to form a slurry. [Ed. note: Preceding sentence changed to bold print.]** Pre-mixing can also be used as an alternative mixing method for application in water. Use a minimum of 1 quart of water for up to five water soluble packets of FirstRate. The packets can be stirred immediately on addition to water or allowed to dissolve. Stir (or shake if pre-mixed in a closed container) until the packets are completely dissolved and granules are dispersed and then add to the spray tank through a 20-35 mesh screen. Rinse container used for pre-mixing and add rinsate to spray tank.

Pre-mixing (other products): If pre-mixing is required for other dry or flowable products applied in tank mix combination with FirstRate, follow recommendations for pre-mixing of such products provided in their respective product labels.

FirstRate Applied in Tank Mix Combination

If a broader spectrum of weed control is needed, FirstRate may be tank-mixed with labeled rates of other herbicides provided (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; and (2) tank mixing is not prohibited by the label of the tank mix product.

Tank Mixing Precautions:

- o Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
- o Do not exceed recommended application rates for respective products or maximum allowable application rates for any active ingredient in the tank mix.
- o For products packaged in water soluble packaging, do not tank mix with products containing boron or mix in equipment previously used to apply a product mixture containing boron unless the tank and spray equipment has been adequately cleaned. (See Equipment Clean-Out Procedures.)
- o Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

Tank Mix Compatibility Testing: A jar test is recommended prior to tank mixing to ensure compatibility of FirstRate and other pesticides. 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 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.

Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture. ~~To prevent foaming during filling, keep end of fill pipe below the surface of the liquid in the spray tank.~~

Mixing Order for Tank Mixes:

1. Fill the spray tank to 1/4 to 1/3 of the total spray volume required with water or liquid fertilizer.
2. Start agitation.
3. Add water soluble packets by opening the overpack and adding water soluble packet (product in transparent film) directly to the spray tank while agitating and allow time to disperse. Do not open water soluble packets. Water soluble packets will float on the surface until the water soluble film is dissolved and product is released. Handling packets with hands should be minimized. Do not handle if hands or gloves are wet. If liquid fertilizer is being used as the spray carrier rather than water, pre-mix the water-soluble packets as described ~~below~~ above before adding to the spray tank.
4. After adding FirstRate, add different formulation types in the following order: (1) other formulation(s) packaged in water soluble packets; (2) any compatibility agent, if required; (3) dry flowables; (4) wettable powders; (5) aqueous suspensions, flowables and liquids. Maintain agitation and fill spray tank to 3/4 of total spray volume and add: (5) emulsifiable concentrates; ~~and~~ (6) solutions; and (7) adjuvants. Allow time for complete mixing and dispersion after each addition.

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5. Finish filling the spray tank. Maintain continuous agitation during mixing and throughout application.

If application or agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled material may be more difficult to resuspend than when originally mixed.

Compatibility Testing

When tank mixing FirstRate with other products, a compatibility test (jar test) using relative proportions of tank mix ingredients should be conducted prior to mixing ingredients in the spray tank. Use a compatibility agent if the need for one is indicated by the jar test (ingredients separate readily and are not easily redispersed).

Equipment Clean-out Procedures

1. Drain any remaining spray mixture from the application equipment.
2. Hose down the interior surfaces of the tank while filling the tank 1/2 full of water.
3. Add household ammonia at a rate of 1 gallon per 100 gallons of water. Recirculate for 5 minutes and spray out part of this mixture for 5 minutes through the boom. Drain tank.
4. Remove all spray nozzles and screens and clean separately.
5. If spray equipment will be used for pesticide application to crops sensitive to FirstRate, steps 1-3 should be repeated. Exterior surfaces of spray equipment should also be thoroughly cleaned.

Note: Rinsate may be disposed of on site according to label use directions or at an approved waste disposal facility.

Soybeans (Soil Application)

Broadleaf Weeds Controlled by Soil Applications:

FirstRate will not control known ALS resistant biotypes of weeds listed below.

cocklebur, common	ragweed, common
horseweed, (maretail)	ragweed, giant
jimsonweed	smartweed, Pennsylvania
lambsquarters, common	sunflower, common
horseweed, (maretail)	velvetleaf
mallow, venice	waterhemp species (1)
morningglory (annual species)	waterhemp, common*
pigweed (annual species)	waterhemp, tall*
smartweed, Pennsylvania	

1. FirstRate provides partial control of waterhemp. For control of To improve control of waterhemp, apply FirstRate in tank mix combination with the appropriate labeled rate of a surface-applied acetanilide product such as Dual® herbicide or soil-incorporated applied dinitroaniline product such as Treflan herbicide or pendimethalin. For optimum control, FirstRate should be used in combination with Treflan and incorporated 2 times in accordance with label instructions for Treflan.

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Use Rates for Soil Applications, Including Preplant Incorporated, Preplant Surface Applied and Preemergence Applications: See "Specific Situations" below.

Note: Numbers in parentheses (-) refer to footnotes following table.

Area of Use [†] (1)	Soil Organic matter	FirstRate (oz/acre)	Acres per 1.5 oz Packet ^{†††}	Acres per 0.6 oz Packet ^{†††} (1)
OH, MN, MI, WI, IA, NE, KS, OK, MO (excluding bootheel), IL and IN (north of Interstate 64), SD, ND, PA, NY	3.0% or less	0.6	2.5	1.0
	Greater than 3.0% ^{††} (2)	0.75	2	0.8
South of Interstate 64 in IL and IN	All organic matter levels	0.75	2	0.8

[†]1. Soil application of FirstRate in other geographic areas is not recommended.

^{††}2. Soil applications of FirstRate at 0.75 oz/acre on soils with greater than 5% organic matter may result in reduced weed control. Under these conditions, postemergence applications of FirstRate or other herbicides may be required to control specific weeds.

^{†††}3. See instructions for calculating the total number of water soluble packets required in the "Spray Preparation" section.

For Specific Situations:

Note: Numbers in parentheses (-) refer to footnotes following table.

Situations	Soil Organic matter	FirstRate (oz/acre)	Acres per 1.5 oz Packet ^{††}	Acres per 0.6 oz Packet ^{††} (2)
<ul style="list-style-type: none"> Moderate to Heavy Giant Ragweed or Morningglory Infestations Applications made 15 to 30 days prior to planting 	3.0% or less	0.6 - 0.75	2.5-2	1 - 0.8
	Greater than 3.0% [†] (1)	0.75	2	0.8

[†]1. Soil applications of FirstRate at 0.75 oz/acre on soils with greater than 5% organic matter may result in reduced weed control. Under these conditions, postemergence applications of FirstRate or other herbicides may be required to control specific weeds.

^{††}2. See instructions for calculating the total number of water soluble packets required in the "Spray Preparation" section.

Preplant Incorporated Application

Apply FirstRate alone or in tank mix combination with other herbicides registered for preplant incorporated application to soybeans. For best results, the seedbed should be relatively free of clods. Incorporate the herbicide(s) into the top 1 to 3 inches of the final seedbed using equipment that provides thorough soil mixing. Do not apply FirstRate earlier than 4 weeks before planting. For best results, apply FirstRate within 2 weeks of planting. When FirstRate is applied in tank mix combination with other herbicide(s), follow the incorporation directions for the tank mix partner(s). Follow applicable use instructions, including application rates, precautions and restrictions of each product used in the tank mixture.

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Preplant Surface Application

Apply FirstRate alone or in tank mix combination with other herbicides registered for preplant soil surface application to soybeans. For best results, the seedbed should be relatively free of clods. Do not apply FirstRate earlier than 4 weeks before planting. For best results, apply FirstRate within 2 weeks of planting. Soil surface applications are not effective until rainfall of at least 0.5 inch has moved FirstRate into surface soil where weed germination occurs. If rainfall is not anticipated, shallow incorporation (i.e., 2 inches deep) prior to planting is recommended to place FirstRate in contact with germinating weeds. If applied in tank mix combination, follow use instructions, including application rates, precautions and restrictions of each product used in the tank mixture.

Note: Reduced weed control in the planted row may occur if untreated soil is exposed during planting operations.

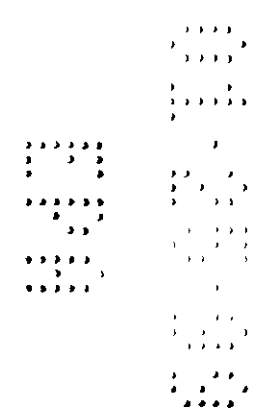
Burndown Application

~~When used as a no till burndown application, FirstRate provides foliar control of specific broadleaf weeds (see weeds controlled list for postemergence application) and residual control of broadleaf weeds listed above for soil applied applications. For optimum results, apply FirstRate within 2 weeks of planting. Foliar burndown can be optimized by using the adjuvant combinations recommended for postemergence application below. If applied in tank mix combination with another herbicide(s) for a burndown application, use only adjuvants recommended for the tank mix partner(s). When tank mixing with other herbicides, a jar test for compatibility is always recommended (see "Compatibility Testing" in the "Mixing Instructions" section). When used as a burndown treatment, FirstRate alone will provide foliar activity on those broadleaf weeds listed in the "Postemergence Application" section of this label. In addition, FirstRate will provide residual control of broadleaf weeds listed under the "Soil Application" section. Foliar burndown applications should include crop oil concentrate (COC) plus a liquid nitrogen fertilizer (see "Adjuvant Systems for Postemergence Application" section). To broaden the spectrum of weeds controlled, FirstRate may be tank mixed with other herbicides such as Roundup Ultra, Touchdown, Gramoxone Extra, 2,4-D, etc. If tank mixing, a jar test for compatibility is always recommended.~~

Foundation Soil Herbicide In Roundup Ready Soybeans: FirstRate can be used as a foundation soil herbicide in a planned sequential program with Roundup Ultra (including any glyphosate formulation labeled for use in Roundup Ready soybeans). Used as a foundation soil herbicide, FirstRate will control or suppress key broadleaf weeds listed in the soil applied section of this label, allowing more optimal timing of a Roundup Ultra postemergence treatment. In addition, residual control from FirstRate may prevent a need for subsequent postemergence applications.

Preemergence Application

Apply after planting but prior to crop or weed emergence. For optimum results, FirstRate should be applied within 2 days after planting. FirstRate may be applied alone or in tank mix combination with other herbicides registered for preemergence application to soybeans. When applied in tank mix combination, follow applicable use instructions, including application rates, precautions and restrictions of each product used in the tank mixture.



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Soybeans (Postemergence Application)

Postemergence Application Timing

FirstRate may be applied any time prior to the 50% flowering stage of soybeans. Application prior to full emergence of the first soybean trifoliolate leaf may cause temporary yellowing or chlorosis of soybeans. Tank-mix partners may cause other effects regardless of the application timing. Application timing restrictions of tank-mix partners should be followed. For FirstRate, optimum application timing for control of labeled weeds is provided in the table below. Allow two hours after application without rainfall for optimum FirstRate effectiveness

Postemergence applications of FirstRate may provide residual soil activity on broadleaf weeds, excluding sicklepod (see soil and postemergence weed lists). Length and effectiveness of residual activity from postemergence applications will vary and is dependent on rainfall following application (0.5 inches or more of rainfall within a week of application), density of the weed and crop canopy at application, and the reserve of ungerminated weed seeds in surface soil

Broadleaf Weeds Controlled by Postemergence Applications

Apply as a broadcast spray at a rate of **0.3 oz/acre**[†] prior to the maximum leaf stage and weed height for listed weeds using one of the recommended adjuvant systems. FirstRate may be applied alone or in tank mix combination with other herbicides registered for postemergence application to soybeans.

Use Rates for Postemergence Applications: [†]

Note: Numbers in parentheses (-) refer to footnotes following table.

FirstRate (oz/acre)	Acres per 4.5 oz Packet ^{**}	Acres per 0.6 oz. Packet [†] (1)
0.3	5.0	2.0

[†]Please refer to the Use Precautions and Restrictions portion of the label for the per season maximum use rates.

^{†1.} See instructions for calculating the total number of water soluble packets required in the "Spray Preparation" section.

Broadleaf Weeds Controlled by Postemergence Applications:

- FirstRate will not control known ALS resistant biotypes of weeds listed below.
- To improve coverage and product performance in heavy weed infestations, use a minimum of 15 gallons per acre spray volume.

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Note: Numbers in parentheses (-) refer to "Weed-Specific Use Information" following table.

Weeds Controlled	Leaf Number at Application (Optimum to Maximum)	Maximum Height (inches)
cocklebur, common	4 to 8	10
jimsonweed	2 to 4	4
mallow, venice	2 to 4	4-3
horseweed (marestail)	2 to 4	6
marshelder	4 to 6	10
morningglory (annual species) (1)	2 to 4	6-4
mustard, wild (2)	2 to 4	2
ragweed, common	4 to 8	10
ragweed, giant† (3)	4 to 6	10
sicklepod** (4)	cotyledon to 1	<2
smartweed, Pennsylvania	2 to 4	6
sunflower, common	4 to 8	12
velvetleaf*** (5)	2 to 4	6
Weeds Suppressed		
burcucumber	2 to 4	6
Canada thistle	---	10
nutsedge, yellow	---	8

Weed-Specific Use Information

1. **Morningglory:** Spray before morningglory plants begin to send out runners.
2. **Wild mustard:** For optimum control apply before wild mustard plants exceed four inches in diameter.
- *3. **Giant ragweed:** Herbicidal activity may be slowed or reduced if applications are made during periods when the growth of weeds are affected by unusual environmental conditions just prior to or after application. Examples of such conditions include especially cool or widely fluctuating day and night air temperatures, drought or heat stress, or waterlogged soils.
- **4. **Sicklepod:** Applications made to sicklepod plants later than the 1-leaf stage of growth will likely result in reduced control. Additional treatment may be required to control later germinating sicklepod plants.
- ***5. **Velvetleaf:** When velvetleaf is a primary target weed, always include urea ammonium nitrate (UAN) or ammonium sulfate with nonionic surfactant, crop oil concentrate or methylated seed oil as the adjuvant system in the spray adjuvant with nonionic surfactant or COG.

Adjuvant Systems for Postemergence Application

Use in combination with one of the following adjuvant systems approved for application to growing crops:

- Nonionic surfactant (0.125 - 0.25% v/v) plus urea ammonium nitrate solution (2.5% v/v)[†] Nonionic surfactant may be used alone at 0.25% v/v when required in certain tank mixes.
- Crop oil concentrate or methylated seed oil (1.2% v/v)
- Crop oil concentrate or methylated seed oil (1.2% v/v) plus urea ammonium nitrate solution (2.5% v/v)

Note: Crop-Use of crop oil concentrate or methylated seed oil plus urea ammonium nitrate is preferred, when weeds are under drought stress, but may increase crop injury and should be used only under adverse weed control conditions.

[†]Dry ammonium sulfate may be used at a rate of 2 lbs per acre as a substitute for urea ammonium nitrate. Refer to "Soil and Post Application Instructions" section for mixing instructions and mixing order for tank mix products and adjuvants.

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Tank-Mix Options

For weeds not listed for postemergence control with FirstRate, the herbicides listed below may be used per label instructions. When applied in tank mix combination with other herbicides, **follow all use instructions for all products, including application rates, precautions and restrictions for each product used in the tank mixture, including use of adjuvants.**

Note: Numbers in parentheses (-) refer to footnotes following table.

Broadleaf Herbicides	Grass Herbicides
Action	Asure II [†] (1)
Basagran	Fusion [†] (1)
Blazer	Poast Plus
<u>Classic</u>	Roundup Ultra (When crop is emerged, use only with Roundup Ready soybeans.)
Cobra	Select
Concert	
Flexstar	
Pinnacle	
Pursuit	
Raptor	
Reflex	
Reliance	
Resource	
Roundup Ultra (When crop is emerged, use only with Roundup Ready soybeans.)	
Stellar	
Synchrony	

[†]1. Under certain conditions, tank-mixing FirstRate with these postemergence grass herbicides will ~~may~~ reduce the ~~their~~ activity of the tank mix partner on some grass species. However, the control of broadleaf weeds weed control with FirstRate will not be affected. Higher ~~This grass antagonism may be overcome by using full~~ labeled rates of the ~~these~~ postemergence grass herbicides in a tank mixture mixtures with FirstRate may overcome this antagonism. ~~Sequential~~ Making separate applications of FirstRate and Assure II or Fusion is the most effective method for reducing the opportunity potential for antagonism.

Do not tank mix Assure II with FirstRate when the target weed is woolly cupgrass or fall panicum, as reduced control may occur.

Other Postemergence Herbicide Applications: Apply other postemergence herbicides at least 7 days before or 7 days after an application of FirstRate.

Precautions for postemergence Applications of FirstRate with Foliar Insecticides: FirstRate may be tank mixed with the foliar applied Lorsban-4E insecticide or synthetic pyrethroid products. The addition of other herbicides with FirstRate in combination with an insecticide may increase the risk for crop injury in the form of stunting or leaf burn.

FirstRate + Roundup Ultra Tank Mix in Roundup Ready Soybeans

FirstRate at 0.3 oz/A may be tank mixed with Roundup Ultra (including any glyphosate formulation labeled for use in Roundup Ready soybeans) to sharpen control of key broadleaf weeds such as giant ragweed, morningglory, velvetleaf, and others listed under the "Postemergence Application" section of this label. Residual control from FirstRate may also reduce the potential need for subsequent postemergence applications.

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