



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (7505P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

279-3627

Date of Issuance:

8/26/20

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

F4044-2

Name and Address of Registrant (include ZIP Code):

FMC Corporation
 2929 Walnut Street
 Philadelphia, PA 19104

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Dan Kenny, Chief
 Herbicide Branch, Registration Division (7505P)

Date:

8/26/20

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 279-3627.”
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

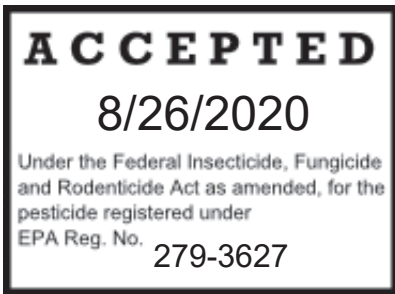
Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 12/15/2016

If you have any questions, please contact Sarah Meadows by phone at 703-347-0505, or via email at meadows.sarah@epa.gov.

Enclosure



[Optional text appears in brackets]

Pethoxamid	Group	15	Herbicide
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F4044-2

For preplant, preplant incorporated, preemergence and early postemergence weed control in soybean, cotton, field corn, sweet corn and popcorn.

EPA Reg. No. 279-XXXX

EPA Est. No. _____

ACTIVE INGREDIENT:	By Wt.
Pethoxamid.....	46.88%
Other Ingredients	53.12%
Total:	100.0%

Contains petroleum distillates.
F4044-2 is an emulsifiable concentrate containing 4 lbs active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN
WARNING/AVISO

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

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.	
Note to Physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.	

Notice: Read the entire Directions for Use, Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

Net Contents: _____

Sold by:
FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Wear protective eyewear and chemical-resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and all other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, protective eyewear, and chemical-resistant gloves.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/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.

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 washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store unused product in original container in a cool, dry, secure area. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and spills): (800) 424-9300

Pesticide Disposal: Pesticide wastes may be hazardous. 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. [equal to or less than 5 gallons]

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, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse as follows: Empty the remaining contents into production equipment and drain for 10 seconds after the flow begins to drip. Fill the container ¼ 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 2 more times.

Nonrefillable container. [greater than 5 gallons] [and less than 260 gallons]

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 if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse or pressure rinse as follows:

Triple rinse as follows: Empty the remaining contents into production equipment or mix tank. Fill the container ¼ 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 production equipment or a mix tank and store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into production equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over production equipment or a 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.

{Note to PM, IBC's may be nonrefillable or refillable, the container handling section will state either Nonrefillable or Refillable.}

Nonrefillable container. {or}

Refillable container.

Bottom discharge IBC.

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into production equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

AGRICULTURAL USE REQUIREMENTS

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

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

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

- Coveralls over long-sleeved shirt and long pants;
- Protective eyewear;
- Chemical-resistant gloves; and
- Shoes plus socks.

PRODUCT INFORMATION

F4044-2 is a selective herbicide that may be preplant surface-applied, preplant incorporated, preemergence, or postemergence treatment in water or liquid fertilizer for control of most annual grasses and certain broadleaf weeds in soybean, cotton, field corn, sweet corn, and popcorn. F4044-2 can be applied in all tillage systems (conventional, reduced and no-tillage). F4044-2 can be applied in the fall or in the spring as a preplant, preplant incorporated, preemergence, or early postemergence treatment for susceptible grass and broadleaf weeds.

This product will not control emerged weeds. If weeds are emerged at the time of application, apply a labeled postemergence herbicide or utilize tillage to control emerged weeds. Dry weather following preemergence application of F4044-2 or a tank-mixture may reduce effectiveness. If F4044-2 is incorporated, any supplemental tillage before planting must not exceed the depth of incorporation. Crop injury may occur following the use of F4044-2 under stress conditions such as cold weather, hail, flooding, water-logged or compacted soil, disease or insect damage, or nutrient deficiencies during early development of the crop.

Restrictions

- Do not use in nurseries, on turf, or on landscape plantings.
- Do not apply to non-target areas under conditions which favor runoff or wind erosion of soil containing this product.

To prevent off-site movement due to runoff or wind erosion:

1. Do not treat on powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, ensure that the soil surface is settled by rainfall or irrigation.
2. Do not apply to impervious substrates, such as paved or highly compacted surfaces.
3. Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops, unless at least ½-inch of rainfall has occurred between application and the first irrigation.
4. Application of this product followed by poor crop growing conditions such as cold, wet soil stress or waterlogged conditions from excessive rainfall or irrigation may result in crop response. Tank-mixes with other residual

herbicides may also increase the potential for crop injury.

5. Before applying to the labeled crop, verification of F4044-2 selectivity on your variety must be confirmed to avoid injury to sensitive varieties. Check with the state Cooperative Extension Service for information on potential F4044-2 varietal sensitivity. If variety tolerance is unknown, such as with new varieties, apply F4044-2 on a small area to confirm variety safety before use on large acreage.

WEED RESISTANCE MANAGEMENT

F4044-2, which contains the active ingredient pethoxamid is a group 15 herbicide based on the mode of action classification system of the Weed Science Society of America. Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different sites of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance. The continued effectiveness of this product depends on the successful implementation of a weed resistance management program.

To aid in the prevention of developing weeds resistant to this product, follow as many of these herbicide resistance management practices as is practical:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using either a burndown herbicide application or tillage.
- Control weeds early when they are relatively small (less than 4 inches).
- Apply full rates of F4044-2 for the most difficult to control weed in the field at the specified time (correct weed size) to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your FMC representative, local retailer, or county extension agent.
- Contact your FMC representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective sites of actions for each target weed.
- If resistance is suspected, treat weed escapes with an herbicide having a site of action other than Group 15 and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Suspected herbicide-resistant weeds may be identified by these indicators:
- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.
- Use a broad spectrum soil-applied herbicide with other sites of action as a foundation in a weed control program.
- Utilize sequential applications of herbicides with alternative sites of action.
- Rotate the use of this product with non-Group 15 herbicides.
- Avoid making more than two applications of F4044-2 and any other Group 15 herbicides within a single growing season unless mixed with an herbicide with a different site of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, including mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.

- Manage weeds in and around fields, during and after harvest to reduce weed seed production.

High Weed Pressure

Where a use rate range is given, use the higher rate of F4044-2 when weed pressure is high and/or conditions are favorable for weed development.

F4044-2 APPLIED ALONE

Weeds Controlled

F4044-2 is taken up by the shoots and/or roots of emerging weeds. This uptake results in the inhibition of shoot and root tissue growth soon after weed germination. F4044-2 alone will not control emerged weeds and must be applied prior to weed emergence. If F4044-2 is incorporated, do not exceed a depth of 2-3 inches. Any tillage after the F4044-2 incorporation and before planting must not exceed 2-3 inches.

Where reference is made to weed “suppression”, this can either mean inconsistent efficacy (ranging from poor to good control), or efficacy that is consistent, but below levels generally considered as good control. Control of these weeds can be erratic, due partially to variable weather conditions. Dry weather following application of F4044-2 may reduce weed control. The following procedures may improve the control of weeds listed as partially controlled in Table 2:

1. Thoroughly till soil to destroy germinating and emerged weeds.
2. Plant crop into moist soil immediately after tillage. If F4044-2 is to be used preemergence, apply at planting or immediately after planting.
3. If available, sprinkler irrigate with ½ inch water within 7 days after application. Refer to the section on **Center Pivot Irrigation Application** for this method of applying F4044-2.
4. If irrigation is not possible and rain does not occur within 7 days after planting and application, weed control may be reduced. Under these conditions, perform a uniform, shallow cultivation as soon as weeds emerge.

Application Instructions and Timings

F4044-2 may be applied alone or in tank-mixtures with other labeled herbicides for weed control in labeled crops at various times. Refer to the given crop section of the label to determine if application timings listed below are permitted. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in tank mixture. Tank-mixtures are permitted only in states where the tank-mix partner is registered.

Preplant surface-applied: For minimum tillage or no-tillage systems only, F4044-2 alone and F4044-2 tank-mixtures may be applied up to 30 days before planting certain crops. Treatments less than 30 days before planting may be made either as a split or a single application. Refer to individual crop section on this label to determine if early preplant surface application is permitted. If weeds are present at the time of treatment, apply in a tank-mixture combination with a contact herbicide. Observe Directions for Use, Precautions, and Restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or reduced weed control can result.

Preplant incorporated: Apply F4044-2 to the soil surface and incorporate into the top 1-2 inches of soil within 14 days before planting using a harrow, rolling cultivator, finishing disk, or similar implement capable of providing uniform incorporation. Use a preplant incorporation application if furrow irrigation is used or when a period of dry weather after application is expected. If crop is to be planted on beds, apply and incorporate F4044-2 after formation of beds, unless specified otherwise.

Preemergence: Surface Apply F4044-2 during planting or after planting, but before weeds or crops emerge.

Postemergence: Because F4044-2 will not control emerged weeds, F4044-2 must be applied to a weed-free soil surface or in tank-mixture with products that provide postemergence control of weeds present at the time of application. Refer to the individual crop sections of this label if a postemergence application is permitted.

Note: Moisture is necessary to activate the active ingredient pethoxamid in soil for weed control. Dry weather following applications of F4044-2 may reduce effectiveness. However, when adequate moisture is received after dry conditions, F4044-2 will control susceptible germinating weeds. F4044-2 may not control weeds that germinate after application but before an activating rainfall or irrigation of at least ½ inch, or weeds that germinate through cracks resulting from dry soil. When adequate moisture is not received after F4044-2 application, weed control may be improved by irrigation. Do not use on peat or muck soils and mineral soils with 10% or more organic matter content. Refer to the crop specific information section for specific application rates, timings and the restrictions and limitations by crop and use pattern.

Table 1. Soil Textures and Herbicide Rates

Unless a specific soil texture is mentioned, the rate tables throughout this label refer to below table for soil texture groups: coarse, medium and fine. Below table includes a complete listing of soil textures included in each of the soil texture grouping:

Coarse	Medium	Fine
Sand Loamy sand Sandy Loam	Loam Silt loam Sandy clay loam Silt	Sandy clay Silty clay loam Silty clay Clay loam Clay

WEEDS CONTROLLED

When used as directed, F4044-2 will provide preemergence control/suppression of the weeds in Table 2.

Table 2. Weeds Controlled or Suppressed by F4044-2 Applied Prior to Weed Emergence

Common Name	Scientific Name	Control (C) or Suppression (S)
Barnyardgrass	<i>Echinochloa crus-galli</i>	C
Bluegrass, annual	<i>Poa annua</i>	C
Crabgrass, large	<i>Digitaria ischaemum</i>	C
Crabgrass, smooth	<i>Digitaria sanguinalis</i>	C
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	C
Cupgrass, Prairie	<i>Eriochloa contracta</i>	C
Cupgrass, Southwestern	<i>Eriochloa acuminata</i>	C
Cupgrass, woolly	<i>Eriochloa villosa</i>	S
Foxtail, bristly	<i>Setaria verticillata</i>	C
Foxtail, giant	<i>Setaria faberi</i>	C
Foxtail, green	<i>Setaria viridis</i>	C
Foxtail, yellow	<i>Setaria pumila</i>	C
Goosegrass	<i>Eleusine indica</i>	C
Johnsongrass (seedling)	<i>Sorghum halepense</i>	S
Millet, browntop	<i>Brachiaria ramosa</i>	S
Millet, foxtail	<i>Setaria italica</i>	C
Millet, wild-proso	<i>Panicum miliaceum</i>	S
Millet, Texas	<i>Urochloa texana</i>	S
Oat, wild	<i>Avena sativa</i>	S
Panicum, browntop	<i>Panicum fasciculatum</i>	C

Common Name	Scientific Name	Control (C) or Suppression (S)
Panicum, fall	<i>Panicum dichotomiflorum</i>	C
Panicum, Texas	<i>Panicum texanum</i>	S
Rice, red	<i>Oryza sativa</i>	S
Ryegrass, Italian	<i>Lolium multiflorum</i>	C
Sandbur, field	<i>Cenchrus spinifex</i>	S
Sandbur, Southern	<i>Cenchrus echinatus</i>	S
Sprangletop, Amazon	<i>Leptochloa panicoides</i>	C
Sprangletop, bearded	<i>Leptochloa fusca</i>	C
Shattercane	<i>Sorghum bicolor</i>	S
Signalgrass, broadleaf	<i>Urochloa platyphylla</i>	C
Wheat, volunteer	<i>Triticum aestivum</i>	S
Witchgrass	<i>Panicum capillare</i>	C
Amaranthaceae		
Amaranth, Palmer	<i>Amaranthus palmeri</i>	C
Amaranth, Powell	<i>Amaranthus powellii</i>	C
Beggarweed, Florida	<i>Desmodium tortuosum</i>	S
Carpetweed	<i>Mollugo verticillata</i>	C
Eclipta	<i>Eclipta prostrata</i>	S
Galinsoga, hairy	<i>Galinsoga quadriradiata</i>	C
Galinsoga, smallflower	<i>Galinsoga parviflora</i>	C
Lambsquarters, common	<i>Chenopodium album</i>	S
Nightshade, Eastern black	<i>Solanum ptychanthum</i>	C
Nightshade, hairy	<i>Solanum physalifolium</i>	S
Pigweed, prostrate	<i>Amaranthus blitoides</i>	C
Pigweed, redroot	<i>Amaranthus retroflexus</i>	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	C
Pigweed, tumble	<i>Amaranthus albus</i>	C
Purslane, common	<i>Portulaca oleracea</i>	S
Pusley, Florida	<i>Richardia scabra</i>	C
Sida, prickly	<i>Sida spinosa</i>	S
Spiderwort, tropical	<i>Commelina benghalensis</i>	C
Velvetleaf	<i>Abutilon theophrasti</i>	S
Waterhemp, common	<i>Amaranthus rudis</i>	C
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	C
Flatsedge, rice	<i>Cyperus iria</i>	C
Nutsedge, yellow	<i>Cyperus esculentus</i>	S

Replanted Crop Directions

If a crop treated with F4044-2 is lost, any crop on this label, or on a supplemental F4044-2 label, may be immediately replanted provided that the rate of F4044-2 applied to the previous crop was not greater than the labeled rate for the crop to be replanted. If the first application was banded and the replant crop is planted in the center of the untreated bands, a second banded treatment may be applied at the rate for the use pattern for the replanted crop, provided the application does not overlap the first application band.

Rotational Crop Restrictions

All labeled crops (corn, cotton, soybean) can be planted immediately after application. All other crops may be planted no earlier than 90 days after application.

SPECIAL APPLICATION PROCEDURES

Fall Application for Spring Weed Control (Only in IA, MN, ND, SD, WI, and portions of NE and IL - See specific instructions in the Corn and Soybean sections of this label for timing of application and other

information):

Do not apply to frozen ground. Use fall applications only on medium to fine soils with greater than 2.5% organic matter that will be planted to labeled crops the next spring. Ground may be tilled before or after application of F4044-2. Do not exceed a 2 to 3-inch incorporation depth if tilled after application of F4044-2.

Restrictions: If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total annual rate for the specific crop, or illegal residues may result.

Fall Application for Italian Ryegrass Control: F4044-2 may be applied in the fall (September 1-December 1) at 3 pints (1.5 lbs ai/A) for residual control of glyphosate-resistant Italian ryegrass. A tillage operation may precede the application. Do not incorporate to a depth greater than 2-3 inches if tillage follows the application of F4044-2.

Restrictions: 1) Do not apply F4044-2 to frozen ground. 2) All crops on the F4044-2 label may be planted the following spring after application. 3) If a spring application is made, the combined total amount of F4044-2 applied in the fall plus the spring must not exceed the maximum annual rate for the specific crop planted, or illegal residues may result. 4) Refer to the crop sections on this label for specific directions.

Ground Application: Apply F4044-2 alone or in tank mixtures by ground equipment in a minimum of 10 gallons of spray solution per acre, unless otherwise specified.

Use sprayers that provide accurate and uniform application. For F4044-2 tank mixtures with wettable powder or dry flowable formulations, screens and strainers used for application must be no finer than 50-mesh. Rinse sprayer thoroughly with clean water immediately after use.

Banded Applications: Calculate the amount of herbicide needed for band treatment by using the following formula:

$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$

APPLICATION INFORMATION AND CROP RESTRICTION/LIMITATIONS

Ground Application

Use sufficient spray volume and spray pressure for accurate and uniform application. Refer to instructions for the spray equipment used to determine the actual minimum volume. Do not apply F4044-2 without dilution in a spray carrier. The carrier may be either water or liquid fertilizer. Apply F4044-2 in a minimum of 10 gallons of water or sprayable liquid fertilizer per treated acre. Rinse sprayer thoroughly with clean water immediately after use.

Aerial Application

Use nozzle types and arrangement that will provide optimum coverage and minimize drift potential. Apply with in minimum of 5 gallons per acre of finished spray solution. For dense weed populations or heavy crop canopy, a higher spray volume may be required to obtain adequate spray coverage.

The following measures must be followed to reduce the potential of spray drift to non-target areas from aerial applications.

1. The distance of the outermost nozzles on the boom must not exceed ¾ the length of the wingspan or 90% of the rotor blade diameter.
2. Use low drift nozzles such as straight-stream that produce coarse to very coarse droplets.

3. Nozzles must always be backward, parallel with the airstream and never pointed downward more than 45 degrees.
4. Without compromising aircraft safety, application must be made at a height of 10 ft. or less above the crop canopy. Applicators must follow the most restrictive precautions to avoid drift hazards including those found in this labeling as well as applicable state and local regulations and ordinances.
5. Do not apply during periods of temperatures inversions.
6. Avoid potential adverse effects to non-target areas by maintaining a 30 ft buffer between the application area and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas, shrub lands, and crop lands).

The applicator must be familiar with and take into account the information covered in the **Spray Drift Management** section below.

SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER.

Avoid any drift conditions that would allow the product to contact desirable vegetation. F4044-2 is not volatile, however; mist from spray drift may cause injury to sensitive plants. The interaction of equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors involved in minimizing drift potential when making decisions. The following drift management requirements must be followed to avoid off-target movement from applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications of dry materials.

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

Information on Droplet Size

The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Use nozzle types arrangements that will provide maximum coverage and minimize the potential for off target movement of spray particles. Droplets size for ground applications must be in the medium to extremely coarse size categories as defined in the August 1999 ASAE S572 publication entitled, "Spray Nozzle Classification by Drop Spectra". Refer to that publication for additional information. For aerial application, low drift or straight stream nozzles that deliver coarse to very coarse droplets are required. Regardless of droplet size, if applications are made improperly or under unfavorable environmental conditions off target movement will occur. (see Wind, Temperature and Humidity, and Temperature Inversion sections in this label).

Controlling Spray Droplet Size

VMD (Volume median diameter) – VMD is the expression of the droplet size of the spray cloud. The VMD value means that 50% of the droplets are larger than the expressed value and 50% of the droplets are smaller than the expressed value. Optimum F4044-2 spray clouds should be 450 microns with fewer than 10% of the droplets being 200 microns or less.

Volume - Use high flow rate nozzles that produce medium droplets to apply the highest practical spray volume.

Pressure - Use the lower spray pressures recommended for the nozzle and do not exceed the manufacture's recommended pressure. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation – Orienting nozzles so that the spray is released backwards parallel to the air-stream will produce larger droplets than other orientations. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type - Use a low drift nozzle type that is designed for the intended application. Do not use nozzles that produce fine or very fine spray droplets (e.g. cone).

Ground Boom Application Height - Do not make applications at a height greater than 4 feet above the top of the largest plants. Making applications at the lowest possible height reduces exposure of droplets to evaporation and wind.

Aerial Application Height – Apply at a height of 10 ft or less above the crop canopy unless aircraft safety is compromised. Applicators must follow the most restrictive use cautions to avoid drift hazards, including those on this label as well as state and local regulations.

Swath Adjustment - When applications are made with cross wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path upwind. Swath adjustment distance must increase with increasing drift potential (higher wind, smaller drops, etc).

Wind - Variable wind speeds with changing directions may pose the largest potential for drift damage if crops other than rice are adjacent to the field to be sprayed. Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Applications must be avoided if wind speed is below 2 mph due to variable wind direction and high inversion potential. Do not apply F4044-2 when wind speed exceeds 15 mph. NOTE: Local terrain can influence wind patterns. Every applicator shall be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity - When making applications in low relative humidity set up equipment to produce larger droplets to compensate for evaporation, but they still should remain within the medium droplet size category. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions – Do not apply at times when spray particles may be entrained into a temperature inversion layer. If inversion conditions are suspected, consult with local weather services before making an application. Applications must not occur during temperature inversion, because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the following morning. Their presence can be indicated by ground fog. However, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas – The pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas). Avoid application to humans or animals. Flagmen and loaders must avoid inhalation of spray mist and prolonged contact with skin.

Center pivot irrigation application — F4044-2 alone or in tank mixture with other herbicides which are registered for center pivot application may be applied in irrigation water preemergence at rates as listed on this label. F4044-2 also may be applied postemergence to the crop and preemergence to weeds in crops where postemergence applications are allowed on this label. Follow all restrictions to avoid illegal residues. Do not apply this product through any other type of irrigation system other than center pivot. Crop injury,

reduced weed control, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

DRY FERTILIZER APPLICATION

F4044-2 may be impregnated or coated onto dry bulk granular fertilizer carriers for fall and preplant surface and preplant incorporated applications. Follow all F4044-2 label restrictions, instructions and precautions.

The individual and/or company selling the herbicide/fertilizer mixture should ensure all individual state regulations relating to dry granular fertilizer blending, registration, labeling, and application are followed.

Select the F4044-2 application rate per acre from this label and determine the quantity of dry bulk fertilizer to be applied per acre (use a minimum of 200 pounds and a maximum of 700 pounds per acre). Use the equation below to determine the amount of F4044-2 needed per ton of fertilizer applied.

$$\frac{\text{(fl. oz. of F4044-2 per acre X 2000)}}{\text{Pounds fertilizer per acre}} = \text{fl. oz. of F4044-2 for 1 ton of fertilizer}$$

F4044-2 may be impregnated on many commonly used dry fertilizer but do not impregnate on ammonium nitrate, fertilizers containing ammonium nitrate, potassium nitrate, sodium nitrate or powdered limestone.

To impregnate F4044-2 on bulk fertilizer, use a closed rotary drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment. Mix F4044-2 with sufficient water to form a sprayable slurry mixture. Spray nozzles be directed to provide uniform fertilizer coverage while avoiding spray contact with mixing equipment. Non uniform impregnation can cause crop injury or unsatisfactory performance.

Spray the herbicide mixture onto the fertilizer after blending has started. If necessary, include a suitable drying agent to ensure a spreadable herbicide impregnated fertilizer. Apply treated fertilizer immediately after impregnation to avoid lump formulation and spreading difficulties. Accurate calibration of fertilizer application equipment and uniform fertilizer distribution is essential for satisfactory weed control. Apply the mixture uniformly to the soil with proper equipment immediately after blending and moisture is required for activation.

Fertilizer Impregnation Restrictions

Impregnation of F4044-2 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.

Application to Fertilizer

Apply 200-700 lbs. of the herbicide/fertilizer mixture per acre. For best results, apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential to prevent possible crop injury. Non-uniform application may result in poor weed control. In areas where conventional tillage is practiced, shallow incorporation of the mixture into the soil may improve weed control.

Precaution: To avoid crop injury, do not use the herbicide/fertilizer mixture on crops where bedding is used.

MIXING AND LOADING INSTRUCTIONS

F4044-2 Alone

Mix F4044-2 with water or liquid fertilizer and apply as a spray. Fill the spray tank half to $\frac{3}{4}$ full with water or liquid fertilizer, add the proper amount of F4044-2, then add the rest of the water or liquid fertilizer. Ensure sufficient agitation is used during mixing and application to maintain a uniform solution.

Mixing Instructions:

1. The spray equipment must be clean before using this product. If it is contaminated with other materials, mixing problems and/or clogging can occur and/or crop response can occur.
2. Prepare no more spray mixture than is needed for the immediate application. Applying the product immediately after preparation ensures that it is in suspension. If application is delayed, agitation to re-mix the products and checking for resuspension ensures proper blending.
3. Maintain maximum agitation throughout the spraying operation.
4. Flush the spray equipment thoroughly after each use and apply rinsate to an appropriate area.

Mixing Steps:

1. Add $\frac{1}{4}$ - $\frac{1}{2}$ of the required amount of clean water and/or fertilizer to the spray or mixing tank.
2. While maintaining agitation, continue filling the spray tank. When the tank is $\frac{3}{4}$ full, add any dry formulation tank-mix partners and allow them to completely and uniformly disperse.
3. Add the required amount of F4044-2 to the spray tank while maintaining agitation. After the product has completely and uniformly dispersed into the tank-mix, add any other liquid tank-mix partners and allow them to completely and uniformly disperse.
4. Add the proper amount of spray adjuvant (for burndown applications only) and continue agitation while adding the remaining water and/or fertilizer.
5. Complete filling the tank with clean water and/or fertilizer to maintain sufficient agitation at all times to insure surface action until the mixture is uniform.
6. After use, thoroughly clean the sprayer according to this label (see Cleaning Spray Equipment) and any tank-mix partner labels.

Mixing F4044-2 in Tank-mixtures with Other Herbicides and Liquid Fertilizers

F4044-2 is compatible with most commonly used herbicides, insecticides, fungicides, and spray adjuvants. Although F4044-2 is compatible with most products, not all combinations have been tested. Before applying any tank mixture not specifically listed on this label, the crop safety of the target crop should be confirmed by applying the mixture to a small area of the target crop in accordance to the label instructions. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

BEFORE MIXING F4044-2 WITH OTHER REGISTERED PRODUCTS FOR ANY USE ON THIS LABEL, READ THE LABEL OF THE TANK-MIX PARTNER TO BE CERTAIN IT IS LABELED FOR USE ON THE TARGET CROP AND THAT USE PATTERNS ARE COMPATIBLE WITH THOSE OF F4044-2. When using F4044-2 in a tank-mixture with other pesticides, observe the most restrictive label limitations and precautions for the products being used.

F4044-2 can be used with commonly used clear liquid nitrogen fertilizers (e.g. 28% or 32% UAN). It may be necessary to prepare a dilution of F4044-2 and water before adding it to the liquid fertilizer mix. It may also be mixed with other liquid fertilizers, however, it is recommended that a preliminary compatibility jar test be conducted using appropriate ratios of F4044-2 and fertilizer. Prepare no more spray mixture than is needed for the immediate application. Applying the product immediately after preparation ensures that it is in suspension. If application is delayed, agitation to re-mix the products and checking for resuspension ensures proper blending.

Compatibility Jar Test:

Perform a jar test before mixing to ensure F4044-2 compatibility with tank-mix partners and adjuvants. The following test assumes a spray volume of 25 gallons per acre. For other spray volumes, make appropriate changes in the ingredient rates.

1. Add 1.0 pt. of water to each of 2 one-quart jars. Note: Use the same source of water and the other components in the compatibility test that will actually be tank-mixed and applied. It is important that all components are mixed at a temperature similar to the temperature of those used for the actual application.
2. To one of the jars, add 1/4 tsp. or 1.2 milliliters of a compatibility agent approved for this use (1/4 tsp. is equivalent to 2 pt/100 gallons spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next and emulsifiable concentrates last. Finally, add the appropriate amount of any adjuvants that will be used (for burndown applications only). After each addition, shake or stir gently to thoroughly mix.
(Dry Herbicides and Adjuvants (for burndown applications only): For each pound to be applied per acre, add 1.4 tsp. to each jar. Liquid Herbicides and Adjuvants (for burndown applications only): For each pint to be applied per acre, add 0.5 tsp. or 2.5 milliliters to each jar).
4. After adding all ingredients for the tank-mixture, replace and tighten lids. Shake jars by inverting the mixture and then let stand for 15 to 30 minutes.
5. After waiting period, check jars for separation, precipitates, flakes, films on the side, gels or other signs of incompatibility. If mixtures separate but can be remixed, the mixture can be sprayed as long as good agitation is used.
6. If the mixtures are incompatible, then try these methods to overcome the problem. A) Make a slurry of dry pesticides in water before adding them to the tank B) Add more compatibility agent or increase the water volume of the mixture.
7. If tank-mixtures are incompatible, then do not spray the mixture. (Properly dispose of testing jars and any pesticide waste).

Use of Adjuvants:

An adjuvant may be used with F4044-2 unless otherwise specified in the crop use directions. F4044-2 is compatible with most products, however not all have been tested. Use the compatibility jar test above to ensure physical compatibility.

Early preplant and preemergence surface applications:

F4044-2 may be applied prior to planting up to crop emergence. Apply F4044-2 alone or in tank-mixtures, up to 30 days before planting. Cultivation or a labeled postemergence herbicide application may still be required under certain conditions for complete weed control.

If weeds are present at the time of application, tank-mix an appropriate postemergence or burndown herbicide(s) to control emerged weeds and follow all label directions, rates, restrictions, and precautions on the tank mixture partner labeling. Before applying to corn, verification of F4044-2 selectivity on your inbred line or hybrid line must be confirmed with your local seed company or supplier to avoid injury to sensitive inbred lines or hybrids.

Preplant incorporated (PPI) applications:

For PPI applications of F4044-2 incorporate into the upper (1-2") soil surface up to 14 days before planting. Deeper incorporation may increase the potential for crop injury and also may result in reduced weed control. Use appropriate equipment that provides uniform shallow incorporation, such as a field cultivator, harrow, rolling cultivator or finishing disc.

Postemergence and Layby applications:

Apply F4044-2 postemergence-layby for additional residual on later flushes of weeds that can emerge in-season. The amount of F4044-2 to apply and the degree of weed control resulting from application depends upon a variety of factors such as weeds present in the field, environmental conditions, growing conditions and soil type. Moisture is necessary to incorporate the active ingredient in the soil for control of germinating seedling weeds. Dry weather following a postemergence application of F4044-2 may reduce effectiveness. Rainfall or irrigation of at least ½ inch within 7 days should be received to ensure good control. F4044-2 may not control weeds that germinate after application but before an activating rainfall/irrigation has occurred or weeds that germinate through cracks resulting from dry soil. For layby applications to control late emerging weeds, apply to the soil before weed emergence or in combination with other herbicides or cultivation to control emerged weeds. For best results, direct the application to the soil below the corn canopy.

Sequential applications

F4044-2 can be applied in sequential programs, but do not exceed the maximum use rate per year. Where weeds are emerged use appropriate tank-mixtures for control of the weed species present.

F4044-2 may be used following an earlier application of F4044-2 herbicide during the same cropping season.

Spray Equipment/Volume: Apply F4044-2 in sufficient water volume to ensure thorough coverage as a broadcast application for good weed control.

For ground application, use a minimum of 10 gallons of spray solution per acre by ground sprayer. For aerial application, use aircraft spray equipment set to a minimum of 2 gallons of spray solution per acre for corn, cotton, and soybean.

Application Method Restrictions

Do not use flood irrigation to apply, activate or incorporate this product.

CLEANING SPRAY EQUIPMENT

Many pesticides are very active at low rates, especially to sensitive crops. Residues left in mixing equipment, spray tanks, hoses, spray booms and nozzles can cause crop effects if they are not properly cleaned. As soon as possible after spraying F4044-2 and before using the sprayer equipment for any other applications, the sprayer equipment must be thoroughly cleaned using the following procedure. In addition, users must take appropriate steps to ensure proper equipment clean-out for any other products mixed with F4044-2 as required on the other product labels. More complete cleaning can be achieved if the spray system is cleaned immediately following the application.

1. Drain sprayer tank, hoses, spray boom and spray nozzles. Use a high-pressure detergent wash to remove physical sediment and residues from the inside of the sprayer tank and thoroughly rinse. Then, thoroughly flush sprayer hoses spray boom and spray nozzles with a clean water rinse. Remove and clean spray tips and all filters and screens (tank, spray hose and spray tips) separately in the ammonia solution of Step 2.

2. Next, prepare a sprayer cleaning solution by adding three gallons of ammonia (containing at least 3% active) per 100 gallons of clean water. Prepare sufficient cleaning solution to allow the operation of the spray system for a minimum of 15 minutes to thoroughly flush hoses, spray boom and spray nozzles.

3. Convenient and thorough cleaning of the sprayer can be achieved if the ammonia solution or fresh water is left in the spray tank, hoses, spray booms and spray nozzles overnight or during storage.

4. Before using the sprayer, completely drain the sprayer system. Rinse the tank with clean water and flush through the hoses, spray boom, and spray nozzles with clean water.

5. Properly dispose of all cleaning solution and rinsate in accordance with Federal, State, and local regulations and guidelines.

- Do not apply sprayer cleaning solutions or rinsate to sensitive crops.
- Do not store the sprayer overnight or for any extended period of time with F4044-2 spray solution remaining in the tank, spray lines, spray boom plumbing, spray nozzles or strainers.
- If the sprayer has been stored or idle, purge the spray boom and nozzles with clean water before beginning any application.
- Should small quantities of F4044-2 remain in inadequately cleaned mixing, loading and/or spray equipment, they may be released during subsequent applications potentially causing effects to certain crops and other vegetation. FMC accepts no liability for any effects due to inadequately cleaned equipment.

When F4044-2 has been tank-mixed refer to the label of the product used previously or tank-mixed with F4044-2 for any additional cleaning instructions.

Handling Instructions

This product must 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 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 wash water, 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.

Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed. This product must be used in a manner which will prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

CROP USE DIRECTIONS

CORN (FIELD CORN, SWEET CORN, POPCORN GROWN FOR GRAIN, SEED OR SILAGE USES) – CROP SECTION

Preplant Surface or Preplant Incorporated Applications (up to 30 days prior to planting): Apply F4044-2 as a broadcast or banded spray to the soil surface or incorporated up to 30 days before planting.

Preemergence Surface Application: Apply F4044-2 as a broadcast or banded spray to the soil surface after planting and before crop emergence.

Postemergence: F4044-2 does not have postemergence activity against weeds. F4044-2 can be applied postemergence from seedling emergence until the corn reaches 40 inches in height. Directed spray may be used to minimize interference from the crop and to increase soil coverage. Drop nozzles will provide optimum spray coverage and minimize contact with the crop when corn height is greater than 24 inches tall.

Fall Application for Spring Weed Control: Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA. Apply after October 31 north of Route 136 in IL.

Application considerations for use of F4044-2 in corn:

- For residual control of weeds only.
- For heavy weed pressure and/or longer residual activity, use the higher labeled rate according to soil texture.
- For control of emerged weeds, tank-mix with labeled postemergence herbicides plus any required adjuvants.
- Rainfall or irrigation is required for incorporation and activation of F4044-2, or poor control of new weed flushes may result.
- Corn seed must be planted a minimum of 1.5 inches deep. Shallow planting can lead to increased crop response risk.
- A preplant or preemergence tank-mix followed by a sequential application of a postemergence herbicide may be necessary for some weeds.
- Rainfall or irrigation is required for incorporation and activation of F4044-2, or poor control of new weed flushes may result.
- For control of additional weed species, F4044-2 may be used in combination with other labeled corn herbicides for increased weed control.

Application restrictions for use of F4044-2 in corn:

- May only be applied to corn up to 40 inches in height.
- Do not make more than 2 applications of F4044-2 per year.
- Do not retreat within 14 days of application.
- Do not apply more than 3 pt (1.5 lb ai/acre) total of F4044-2 per application.
- Do not apply more than 3 pt (1.5 lb ai/acre) total of F4044-2 per cropping year.

Table 3. Fall Preplant / Spring Preplant Surface / Preplant Incorporated / Preemergence Application Rates for Corn

Organic Matter	Use Rate by Soil Texture F4044-2 pt/A (lb ai/A)		
	Coarse	Medium	Fine
Less than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)
Greater than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)

- Refer to Table 1 for definitions of soil texture groups.

Table 4: Postemergence or Lay-By Application Rates for Corn

Organic Matter	Use Rate by Soil Texture F4044-2 pt/A (lb ai/A)		
	Coarse	Medium	Fine
Less than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)
Greater than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)

- Refer to Table 1 for definitions of soil texture groups.

COTTON - CROP SECTION

Preplant Surface or Preplant Incorporated Applications (up to 30 days prior to planting): Apply F4044-2 as a broadcast or banded spray to the soil surface or incorporated up to 30 days before planting.

Preemergence Surface Application: Apply F4044-2 as a broadcast or banded spray to the soil surface after planting and before crop emergence.

Postemergence: F4044-2 does not have postemergence activity against weeds. F4044-2 may be applied postemergence either as over the top or directed post emergence to cotton for residual preemergence control of listed weeds. F4044-2 must not be applied over-the-top when cotton is greater than 8 leaves.

Postemergence-Directed – Early and Lay-by Applications: F4044-2 does not have postemergence activity against weeds. Apply F4044-2 alone or as a tank mixture with other herbicides residual preemergence control of listed weeds.

Application considerations for use of F4044-2 in cotton:

- For residual control of weeds only.
- For heavy weed pressure and/or longer residual activity, use the higher labeled rate according to soil texture.
- For control of emerged weeds, tank-mix with labeled postemergence herbicides plus any required adjuvants.
- Rainfall or irrigation is required for incorporation and activation of F4044-2, or poor control of new weed flushes may result.
- A preplant or preemergence tank-mix followed by a sequential application of a postemergence herbicide may be necessary for some weeds.
- Rainfall or irrigation is required for incorporation and activation of F4044-2, or poor control of new weed flushes may result.
- For control of additional weed species, F4044-2 may be used in combination with other labeled cotton herbicides for increased weed control.

Application restrictions for use of F4044-2 in cotton:

- May only be applied to cotton up to first bloom.
- Do not make more than 2 applications of F4044-2 per season.
- Do not retreat within 14 days of application.
- Do not apply more than 3 pt (1.5 lb ai/acre) total of F4044-2 per application.
- Do not apply more than 3 pt (1.5 lb a.i./acre) total of F4044-2 per cropping season.

Table 5. Early Preplant, Preplant Incorporated, Preemergence, Postemergence, and Postemergence-Directed Application Rates for Cotton.

Organic Matter	Use Rate by Soil Texture F4044-2 pt/A (lb ai/A)		
	Coarse	Medium	Fine
Less than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)
Greater than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)

- Refer to Table 1 for definitions of soil texture groups.

SOYBEAN - CROP SECTION

Fall Application for Spring Weed Control: Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA. Apply after October 31 north of Route 136 in IL.

Preplant Surface or Preplant Incorporated Applications (up to 30 days prior to planting): Apply F4044-2 as a broadcast or banded spray to the soil surface or incorporated up to 30 days before planting.

Preemergence Surface Application: Apply F4044-2 as a broadcast or banded spray to the soil surface after planting and before crop emergence. For additional control of morningglory, common ragweed, Palmer amaranth and giant ragweed, velvetleaf, sunflower and others, use tank-mixes or sequential applications of AUTHORITY herbicides at their labeled use rate.

Postemergence: F4044-2 does not have postemergence activity against weeds. F4044-2 may be applied postemergence for residual preemergence control of listed weeds. F4044-2 can be applied to soybeans from emergence to R1 stage.

Application considerations for use of F4044-2 in soybean:

- For residual control of weeds only.
- For heavy weed pressure and/or longer residual activity, use the higher labeled rate according to soil texture.
- For control of emerged weeds, tank-mix with labeled postemergence herbicides plus any required adjuvants.
- Rainfall or irrigation is required for incorporation and activation of F4044-2, or poor control of new weed flushes may result.
- Soybean seed must be planted a minimum of ½ -inch deep. Shallow planting can lead to increased crop response risk.
- A preplant or preemergence tank-mix followed by a sequential application of a postemergence herbicide may be necessary for some weeds.
- Rainfall or irrigation is required for incorporation and activation of F4044-2, or poor control of new weed flushes may result.
- For control of additional weed species, F4044-2 may be used in combination with other labeled soybean herbicides for increased weed control.
- A preplant or preemergence tank-mix followed by a sequential application of a postemergence herbicide may be necessary for some weeds.
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Application restrictions for use of F4044-2 in soybean:

- Do not make more than 2 applications of F4044-2 per season.

- Do not retreat within 14 days of application.
- Do not apply more than 3 pt (1.5 lb ai/acre) total of F4044-2 per application.
- Do not apply more than 3 pt (1.5 lb a.i./acre) total of F4044-2 per cropping season.
- The Preharvest Interval (PHI) is 14 days.

Table 6. Fall Preplant / Spring Preplant Surface / Preplant Incorporated / Preemergence Application Rates for Soybean

Organic Matter	Use Rate by Soil Texture F4044-2 pt/A (lb ai/A)		
	Coarse	Medium	Fine
Less than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)
Greater than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)

Table 7. Postemergence Application Rates for Soybean

Organic Matter	Use Rate by Soil Texture F4044-2 pt/A (lb ai/A)		
	Coarse	Medium	Fine
Less than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)
Greater than 3%	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)	1.0 – 3.0 pt (0.5 – 1.5 lb ai/A)

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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