

ACCEPTED

MAY 20 1990

Under the Federal Insecticide, Fungicide, and
Rodenticide Act, as amended for the
pesticide registered under
EPA Reg. No. 241-377

**SQUADRON® NF
herbicide**

FOR USE IN SOYBEANS

FOR USE ONLY IN ALABAMA, ARKANSAS, DELAWARE, FLORIDA, GEORGIA, ILLINOIS, INDIANA, IOWA, EASTERN KANSAS, KENTUCKY, LOUISIANA, MARYLAND, SOUTHERN MICHIGAN, MISSISSIPPI, MISSOURI, EASTERN NEBRASKA, NEW JERSEY, NORTH CAROLINA, OHIO, EASTERN OKLAHOMA, PENNSYLVANIA, SOUTH CAROLINA, TENNESSEE, EASTERN TEXAS, VIRGINIA, WEST VIRGINIA AND SOUTHERN WISCONSIN.

FOR SOUTH DAKOTA, PREPLANT INCORPORATED TREATMENTS ONLY IN THE FOLLOWING COUNTIES: CLAY, LINCOLN, TURNER, UNION AND YANKTON.

ACTIVE INGREDIENTS:

Ammonium salt of imazaquin (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-quinolinecarboxylic acid)*	3.65%
Pendimethalin (N-1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine	21.96%
INERT INGREDIENTS	74.39%
TOTAL	100.00%

*Equivalent to 3.46%, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)5-oxo-1H-imidazol-2-yl]-3-quinolinecarboxylic acid.
SQUADRON NF contains 2.33 pounds of active ingredients per gallon (2.00 pounds of pendimethalin and 0.33 pounds of imazaquin).

EPA Reg. No. 241-

EPA Est. No. 241-MO-1

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO!

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PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

- If in eyes; hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Call a physician.
- If swallowed; DO NOT induce vomiting. Call a physician or Poison Control Center immediately.
- If on skin; wash with plenty of soap and water. Get medical attention if skin irritation persists.
- If inhaled; Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

See next page for additional Precautionary Statements.

American Cyanamid Company
Agricultural Division
Crop Protection Chemicals Department
Wayne, NJ 07470 ©1990

NOTE TO PHYSICIAN: Because of increased risk of chemical pneumonia or pulmonary edema caused by aspiration of hydrocarbon solvent, vomiting should be induced only under professional supervision.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

DANGER

Causes irreversible eye damage. Harmful if inhaled or absorbed through the skin. DO NOT get in eyes or on clothing. Wear goggles or face shield. Avoid breathing vapor or spray mist. Avoid contact with skin. Wash thoroughly with soap and water after handling. Use with adequate ventilation. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. DO NOT apply directly to water or wetlands (swamps, bogs, marshes, potholes). Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT contaminate water when disposing of equipment washwaters.

In case of an emergency endangering life or property involving this product, call collect, day or night, Area Code 201-835-3100.

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DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use.

Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or values, etc.

American Cyanamid Company makes no other express or implied warranty, including any other express or implied warranty of FITNESS or MERCHANTABILITY. USER assumes the risk of any use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable by American Cyanamid Company.

DIRECTIONS FOR USE

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

This labeling must be in the possession of the user at the time of pesticide application.

Observe all cautions and limitations in this leaflet. The use of SQUADRON NF not consistent with this label can result in injury to crops, animals, or persons. Keep container closed to avoid spills and contamination.

DO NOT apply this product through any type of irrigation system.

STORAGE AND DISPOSAL

STORAGE: KEEP FROM FREEZING. DO NOT STORE BELOW 32°F. SHAKE WELL BEFORE USING.

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE

DISPOSAL: Pesticide wastes are acutely 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

DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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.

GENERAL INFORMATION

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For control of grass and broadleaf weeds, SQUADRON NF may be applied as a preplant incorporated or preemergence treatment.

DO NOT APPLY SQUADRON NF OR ITS TANK MIXTURES PREEMERGENCE IN SOUTH DAKOTA.

After SQUADRON NF is applied, some susceptible weeds emerge, growth stops, and then the weeds either die or are not competitive with the crop.

Some dwarfing of soybean plants may occur with SQUADRON NF applications. This is the result of shortened plant internodes and has no effect on soybean yields.

There should be an interval of 90 days between the SQUADRON NF application and soybean harvest. DO NOT feed plants or straw to livestock.

NOTE: DO NOT apply SQUADRON NF postemergence to soybeans as crop injury may occur.

Crops other than soybeans, such as cotton, corn, grain sorghum, rice and vegetables, may be injured by spray drift or other indirect contact with SQUADRON NF.

To avoid injury to sensitive crops from spray drift, follow all use directions and precautions in Spraying Instructions on page 4.

To avoid injury to sensitive crops, spray equipment used for SQUADRON NF applications must be drained and thoroughly cleaned with water before being used to apply other products to these crops.

Apply SQUADRON NF prior to July 1 in the Northern Use Area, as defined in the USE AREA section of this label.

See page 7 for Rotational Crop Restrictions.

Replanting: If replanting is necessary in a field previously treated with SQUADRON NF, the field may be replanted to soybeans. Rework the soil no deeper than the treated zone. DO NOT apply a second treatment of SQUADRON NF.

MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. While agitating add the required amount of product and then fill the remainder of the tank with water. Maintain agitation while spraying to ensure a uniform spray mixture.

For mixing instructions for tank mixtures with Roundup or paraquat see the NO-TILL SYSTEMS section of this leaflet.

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SPRAYING INSTRUCTIONS

NOTE: DO NOT make applications when spray may be carried by wind to sensitive crops.

Avoid overlaps when spraying.

GROUND APPLICATIONS:

Uniformly apply with properly calibrated ground equipment in 10 to 60 gallons of water per acre. A spray pressure of 20 to 40 psi is recommended.

To ensure thorough coverage, use a minimum of 20 gallons of water per acre when applying SQUADRON to minimum or no-till soybeans. Use higher gallonage for fields with dense vegetation or heavy crop residues.

DO NOT apply with ground equipment when wind velocity is greater than 10 mph.

AERIAL APPLICATIONS:

Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre.

DO NOT ALLOW SQUADRON NF TO DRIFT OUTSIDE OF THE INTENDED TREATED FIELD.

DO NOT SPRAY WHEN ENVIRONMENTAL CONDITIONS COULD CAUSE DRIFT.

Applicator is responsible for any loss or damage which results from spraying SQUADRON NF in a manner other than recommended in this label. In addition, applicator must follow all applicable state and local regulations and ordinances in regard to spraying.

USE RATE

Apply SQUADRON NF at a rate of 3.0 pints per acre.

WEEDS CONTROLLED

The following grass and broadleaf weeds are controlled by recommended treatments of SQUADRON NF:

GRASSES

Barnyardgrass	(<u>Echinochloa crus-galli</u>)
Crabgrass	(<u>Digitaria spp.</u>)
Crowfootgrass	(<u>Dactyloctenium aegyptium</u>)
Cupgrass, Woolly**	(<u>Eriochloa villosa</u>)
Foxtail	
Giant	(<u>Setaria faberi</u>)
Green	(<u>Setaria viridis</u>)
Robust	(<u>Setaria sp.</u>)
Yellow	(<u>Setaria glauca</u>)
Goosegrass	(<u>Eleusine indica</u>)
Johnsongrass, seedling	(<u>Sorghum halepense</u>)
Panicum	
Browntop	(<u>Panicum fasciculatum</u>)
Fall	(<u>Panicum dichotomiflorum</u>)
Texas	(<u>Panicum texanum</u>)
Sandbur, Field	(<u>Cenchrus incertus</u>)
Shattercane**	(<u>Sorghum bicolor</u>)
Signalgrass, Broadleaf	(<u>Brachiaria platyphylla</u>)
Witchgrass	(<u>Panicum capillare</u>)

BROADLEAF WEEDS

Bristly Starbur	(<u>Acanthospermum hispidum</u>)
Burcucumber*	(<u>Sicyos angulatus</u>)
Carpeweed	(<u>Mollugo verticillata</u>)
Cocklebur, Common	(<u>Xanthium strumarium</u>)
Jimsonweed	(<u>Datura stramonium</u>)
Kochia	(<u>Kochia scoparia</u>)
Lambsquarters, Common	(<u>Chenopodium album</u>)
Mallow, Venice	(<u>Hibiscus trionum</u>)
Morningglory	
Palm Leaf	(<u>Ipomoea wrightii</u>)
Pitted	(<u>Ipomoea lacunosa</u>)
Smallflower	(<u>Jacquemontia tamnifolia</u>)
Mustard species	(<u>Brassica spp.</u>)
Nightshade, Eastern Black*	(<u>Solanum ptycanthum</u>)
Pigweed	
Palmer	(<u>Amaranthus palmeri</u>)
Redroot	(<u>Amaranthus retroflexus</u>)
Smooth	(<u>Amaranthus hybridus</u>)
Spiny	(<u>Amaranthus spinosus</u>)
Waterhemp, Tall	(<u>Amaranthus tuberculatus</u>)
Poinsettia, Wild	(<u>Euphorbia heterophylla</u>)
Puncturevine	(<u>Tribulus terrestris</u>)
Purslane	(<u>Portulaca oleracea</u>)
Pusley, Florida	(<u>Richardia scabra</u>)
Ragweed	
Common	(<u>Ambrosia artemisiifolia</u>)
Giant*	(<u>Ambrosia trifida</u>)
Redweed*	(<u>Melochia corchorifolia</u>)
Sida, Prickly (Teaweed)	(<u>Sida spinosa</u>)
Smartweed	
Ladysthumb	(<u>Polygonum persicaria</u>)
Pennsylvania	(<u>Polygonum pennsylvanicum</u>)
Spurge	
Annual	(<u>Euphorbia spp.</u>)
Prostrate	(<u>Euphorbia humistrata</u>)
Spotted	(<u>Euphorbia maculata</u>)
Sunflower, Common	(<u>Helianthus annuus</u>)
Velvetleaf*	(<u>Abutilon theophrasti</u>)

SQUADRON NF will aid in the control and reduce competition from:

Beggarweed, Florida	(<u>Desmodium tortuosum</u>)
Mexicanweed	(<u>Caperonia castanifolia</u>)
Morningglory	
Entireleaf	(<u>Ipomoea hederacea var. intergriuscula</u>)
Ivyleaf	(<u>Ipomoea hederacea</u>)
Tall	(<u>Ipomoea purpurea</u>)
Nutsedge, Yellow*	(<u>Cyperus esculentus</u>)
Sicklepod	(<u>Cassia obtusifolia</u>)

* Preplant incorporated treatments only.

**Preplant incorporated treatments only; for best results, use a SQUADRON NF plus PROWL tank mixture.

ROTATIONAL CROP RESTRICTIONS

The following rotational crops may be planted after applying SQUADRON NF in soybeans:

1. Wheat may be planted in the fall, four months after SQUADRON NF application in soybeans. Rice may be planted in the spring of the year following SQUADRON NF application. (See Northern Use Area Restrictions*)

2. Eleven months after SQUADRON NF application:

Barley (See Northern Use Area Restrictions*)

Oats (See Northern Use Area Restrictions*)

Field corn (See Northern Use Area* or Southern Use Area Restrictions**)

Edible beans

Grain sorghum

Peanuts

Tobacco

*NORTHERN USE AREA RESTRICTIONS:

For the Northern Use Area as defined in the USE AREA section of this label; DO NOT plant field corn, wheat, barley, or oats as a rotational crop in the fall or in the spring of the year following SQUADRON NF application.

**SOUTHERN USE AREA RESTRICTIONS:

For the Southern Use Area, as defined in the USE AREA section of this label; field corn may be planted as a rotational crop in the spring of the year following SQUADRON NF application unless extreme drought conditions develop and less 15 inches of rainfall or irrigation is received from the date of SQUADRON NF application through October of the year of application. For eastern Oklahoma, Arkansas, the bootheel of Missouri, Tennessee, North Carolina and states south: field corn may be planted in the spring of the year following SQUADRON NF application unless extreme drought conditions develop and less than 15 inches of rainfall or irrigation is received within 6 months following the date of application.

ONLY rotational crops harvested at maturity may be used for feed or food.

DO NOT plant other rotational crops prior to 18 months after last SQUADRON NF application.

DO NOT apply products containing chlorimuron ethyl (e.g. Classic, Canopy, Gemini, Lorox Plus, Preview¹, etc.) or imazethapyr (e.g. PURSUIT[®] or PURSUIT[®] PLUS) the same year as SQUADRON NF or injury to follow crops may occur.

DO NOT graze or feed treated soybean forage, hay or straw to livestock.

¹Classic, Canopy, Gemini, Lorox Plus, and Preview are trademarks of E.I. du Pont de Nemours and Company.

[®]Registered Trademark of American Cyanamid Company.

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**SQUADRON NF plus PROWL® Tank Mixture
For Heavy Grass Infestations in Soybeans**

PROWL can be tank mixed with SQUADRON NF and applied preplant incorporated or preemergence if heavy or difficult to control infestations are anticipated from grasses listed in this leaflet.

On coarse textured soils add PROWL at 0.5 pint per acre and on medium and fine textured soils add PROWL at 0.5 to 1 pint per acre.

See the PROWL label for soil types classified as coarse, medium and fine textured.

Apply this tank mixture preplant incorporated north of Interstate 80.

Observe all precautions and limitations on the PROWL label.

APPLICATION INSTRUCTIONS

EARLY PREPLANT APPLICATIONS

SQUADRON NF may be applied up to 45 days prior to planting. Incorporate uniformly into the top 1 to 2 inches of soil within 7 days after application. See PREPLANT INCORPORATED APPLICATIONS section for incorporation instructions. Adequate moisture is required for activation of SQUADRON NF.

If soybeans are planted on beds, apply and incorporate after bed formation.

PREPLANT INCORPORATED APPLICATIONS

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Apply SQUADRON NF or its PROWL tank mixture before planting and incorporate uniformly into the top 1 to 2 inches of soil. Mechanical incorporation can be achieved by the following:

- (a) Field cultivator with 3 to 4 rows of sweeps (Do not use chisel points), spaced at intervals of 7 inches or less and staggered so that no soil is left unturned, set to cut 3 inches deep, and operated two times at more than 5 mph with the second pass made at an angle to the first.
- (b) PTO-driven equipment (tillers, cultivators, harrows) set to cut 2 inches deep and operated one time at 4 mph or less.
- (c) Rolling cultivator set to cut 2 to 3 inches deep and operated two times at 6 to 8 mph. Use only on coarse textured soils.
- (d) Lely-Roterra² set and operated according to the manufacturer's directions to thoroughly incorporate SQUADRON NF to a depth of 1 to 2 inches.
- (e) Do-All set and operated according to the manufacturer's directions to thoroughly incorporate SQUADRON NF to a depth of 1 to 2 inches.
- (f) Disk harrow set to cut 3 to 4 inches deep and operated in two different directions at 4 to 6 mph.

SQUADRON NF may be applied immediately before planting or up to 45 days prior to planting. Incorporate within 7 days after application. Adequate moisture is required for activation of SQUADRON NF.

If soybeans are planted on beds, apply and incorporate after bed formation.

²Lely-Roterra is a trademark of Lely.

[•]Registered Trademark of American Cyanamid Company.

PREEMERGENCE APPLICATIONS

MINIMUM AND CONVENTIONAL TILLAGE:

Apply SQUADRON NF or its PROWL tank mixture during or up to 2 days after planting. DO NOT apply postemergence to soybeans. As with other herbicides applied preemergence, rainfall or irrigation is necessary to activate SQUADRON NF in the soil. If sufficient moisture to activate SQUADRON NF is not received within 7 days after application, a thorough shallow tillage or cultivation is recommended (preferably with a rotary hoe) for optimum weed control.

NO-TILL SYSTEMS:

Apply SQUADRON NF or its PROWL tank mixture during or up to 2 days after planting. DO NOT apply postemergence to soybeans. If needed, apply paraquat or Roundup³ in combination with SQUADRON NF. Refer to the respective labels for rates, methods of application, proper timing, weeds controlled, restrictions, and precautions. Use ground equipment only.

When SQUADRON NF is tank mixed with paraquat or Roundup, add SQUADRON NF to the tank first, next add PROWL (if used), then add paraquat or Roundup. When paraquat is included in a tank mixture, add 8 oz. of non-ionic surfactant per 100 gallons of spray mixture as the last ingredient in the tank.

³Roundup is a trademark of Monsanto Agricultural Products Co.

SQUADRON NF plus Command⁴ 4 EC Preplant Incorporated Tank Mixture For Use When Heavy Infestations of Velvetleaf are Anticipated

Observe all precautionary statements in the Command label before using. Use sprayers equipped with nozzles that provide accurate and uniform application. NOTE: The use of an agriculturally approved drift-reducing agent is required at spray volumes of 10 to 15 gallons per acre.

Apply SQUADRON NF plus Command 4 EC to the soil surface and uniformly incorporate to a depth of 1 to 2 inches. Incorporate within 9 hours of application. DO NOT apply aerially or through irrigation systems. DO NOT apply this tank mixture to overly moist or wet soils.

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SPECIAL PRECAUTION

Command 4 EC is a volatile compound. Off-site movement of spray drift or vapors of Command can cause foliar whitening or yellowing of some plants. Prior to using Command, read and strictly follow all precautions and application instructions on the Command 4 EC label.

WEED SPECIES CONTROLLED

The SQUADRON NF plus Command tank mixture controls heavy infestations of velvetleaf as well as the weeds listed in the WEEDS CONTROLLED section of the label.

USE RATES

Apply SQUADRON NF at a rate of 3.0 pints per acre in tank mixture with Command 4 EC at 0.25 to 0.5 pints per acre.

ROTATIONAL CROP RESTRICTIONS

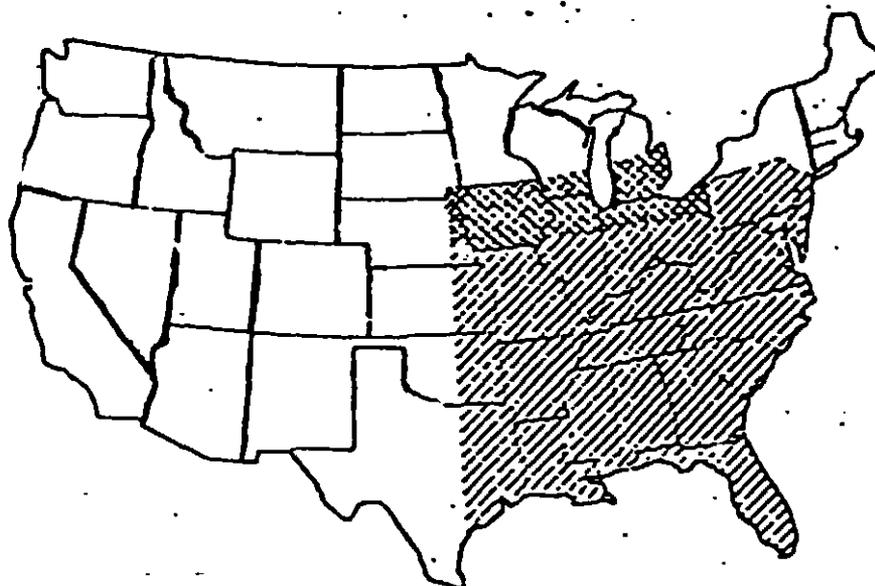
Follow all rotational crop restrictions on the SQUADRON NF and Command labels. Always follow the most restrictive label.

In the event of a crop loss due to weather conditions, soybeans can be replanted. DO NOT work the soil deeper than 2 inches.

⁴ Command is a trademark of FMC Corporation.

USE AREA

SQUADRON NF can be applied only in the states or parts of states shaded in the following map:



XXXXX - Northern Use Area (includes: Nebraska, east of U.S. 81, north of U.S. 34; Illinois, north of S.R. 116 for area west of Peoria, north of U.S. 24 for area east of Peoria; Indiana, north of U.S. 24 for area west of Huntington, north of U.S. 224 for area east of Huntington; Ohio, north of U.S. 224; the following South Dakota counties: Clay, Lincoln, Turner, Union and Yankton; and all other states or portions of states shaded in the Northern Use Area map.)

///// - Southern Use Area (includes: Kansas, east of U.S. 81, southern portions of Illinois, Indiana, Ohio, and eastern Nebraska not covered by Northern Use Area description; and all other states or portions of states shaded in the Southern Use Area map.)

Note: See ROTATIONAL CROP RESTRICTIONS section for recommendations applying to the Northern vs. Southern Use Areas.

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