

JUL 30 1993

Ms. Desiree L. Little
American Cyanamid Co.
P.O. Box 400
Princeton, NJ 08543

Dear Ms. Little:

Subject: Tank mix with 2,4-D and Metribuzin
SQUADRON® HERBICIDE
EPA Reg. No. 241-327
Your submission dated July 7, 1993

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

This acceptance of your label does not relieve you of any obligation to comply with the Worker Protection Standard (WPS). Under the WPS labeling regulations at 40 CFR part 158, subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

Sincerely yours,

Robert J. Taylor
Product Manager 25
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

RD:RTaylor:eja:7/30/93:3056800

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**SQUADRON®
herbicide**

FOR USE IN SOYBEANS

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 contains 2.33 pounds of active ingredients per gallon (2.00 pounds ai of pendimethalin and 0.33 pounds ai of imazaquin).

EPA Reg. No. 241-327

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN
DANGER!/PELIGRO!**

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

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

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.

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

See Additional Precautionary Statements Inside.

**AMERICAN CYANAMID COMPANY
AGRICULTURAL PRODUCTS DIVISION
CROP PROTECTION CHEMICALS DEPARTMENT
WAYNE, NJ 07470 ©1993**

**ACCEPTED
WITH COMMENTS
in EPA Letter Dated:**

JUL 30 1993

Net Contents:

®Registered Trademark of American Cyanamid Company

Under the Federal Insecticide, Fungicide, and Plant Nuisance Act as amended, for the pesticide registered under EPA Reg. No. 241-327

241-327

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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, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. DO NOT contaminate water when disposing of equipment washwaters.

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. 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, herbicide resistant weed populations, or the use of, 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 shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

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, subject to the risks referred to above. CYANAMID DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

BUYER'S EXCLUSIVE REMEDY AND AMERICAN CYANAMID'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF SQUADRON. In no case shall Cyanamid or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

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Uses With Other Products (Tank Mixes)

If this product is used in combination with any other product except as specifically recommended in writing by AMERICAN CYANAMID COMPANY, then AMERICAN CYANAMID COMPANY shall have no liability for any loss, damage or injury arising out of its use in any such combination not so specifically recommended. If used in combination recommended by AMERICAN CYANAMID COMPANY, the liability of AMERICAN CYANAMID COMPANY shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the AMERICAN CYANAMID COMPANY product in such combination use, and in any event shall be limited to return of the amount of the purchase price of the product.

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 and on the labels of products used in combination with SQUADRON. DO NOT use SQUADRON other than in accordance with the instructions set forth on this label. The use of SQUADRON 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 40oF. 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 FOR 2.5 GALLONS:

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.

CONTAINER DISPOSAL FOR MINI BULK:

If program offered by dealer, return to point of purchase for repackaging. If no repackaging program is available, 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

For broad-spectrum control of grass and broadleaf weeds in soybeans, SQUADRON may be applied as a preplant incorporated or preemergence treatment.

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

A timely cultivation may aid in the control of certain weeds or improve general weed control when adequate moisture is not received after application. Cultivation should be shallow.

SQUADRON reaches the growing points of susceptible weeds either by direct contact in the soil, or by root uptake and rapid translocation to the growing points. Therefore, adequate soil moisture is important for optimum SQUADRON activity. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 2 inches is normally adequate. If adequate moisture is not received within 7 days after treatment, then a cultivation or postemergence herbicide application may be needed to improve weed control. When adequate moisture is received after dry conditions, SQUADRON will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil.

A SQUADRON soil treatment followed by a SCEPTER[®], SCEPTER[®] 70DG, SCEPTER[®] O.T.[®] or Classic¹ postemergence treatment will control certain problem weeds. Use sequential treatments in recommended states only.

Occasionally, internode shortening of soybean plants may be observed with SQUADRON applications. This has no effect on soybean yields.

A program for long-term weed management should include at least two different mode-of-action herbicides on major weeds because, within any weed population, there may be individual weeds that a herbicide will not control because of genetic differences. See your Cyanamid sales representative for a list of herbicides with different modes-of-action and recommendations.

PRECAUTIONS:

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

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

DO NOT use SQUADRON other than in accordance with the instructions set forth on this label.

DO NOT use SQUADRON in any tank mixes other than those specifically provided in this label.

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¹Registered Trademark of E.I. du Pont de Nemours and Company

DO NOT use on crops other than soybeans. 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.

To avoid injury to sensitive crops from spray drift, follow all use directions and precautions in SPRAYING INSTRUCTIONS on page 14 and 15.

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

Apply SQUADRON prior to July 1 in Use Region 3, as defined in the USE AREA section of this label.

There should be an interval of 90 days between the SQUADRON application and soybean harvest.

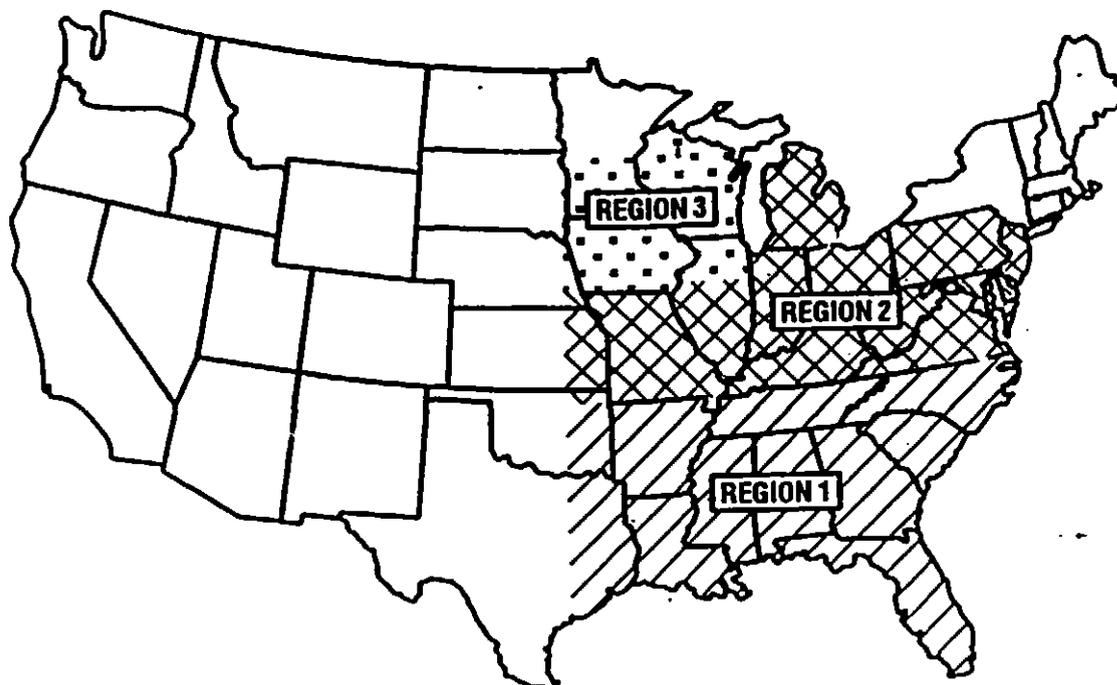
DO NOT graze or feed treated soybean forage, hay, or straw to livestock.

Use of SQUADRON herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with use of this product and, therefore, rotational crop injury is always possible. See pages 19 to 21 for ROTATIONAL CROP RESTRICTIONS.

Replanting: If replanting is necessary in a field previously treated with SQUADRON, the field may be replanted to soybeans. Rework the soil no deeper than the treated zone. DO NOT APPLY A SECOND TREATMENT OF SQUADRON.

USE AREA

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



Use Region 1 includes eastern Oklahoma, Arkansas, the Missouri bootheel, Tennessee, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and eastern Texas.

Use Region 2 includes eastern Kansas (east of U.S. 81; the counties of Cloud, Ellsworth, Harvey, Jewell, Lincoln, Mitchell, McPherson, Ottawa, Republic, Saline, Sedgewick, and Sumner), southeastern Nebraska (east of U.S. 81, south of U.S. 34), Missouri, Illinois (south of S.R. 116 west of Peoria; south of U.S. 24 east of Peoria), Indiana, Ohio, Michigan, Kentucky, Virginia, West Virginia, Pennsylvania, Maryland, Delaware, and New Jersey.

Use Region 3 includes Nebraska (east of U.S. 81, north of U.S. 34 and also that area east of U.S. 283, south of U.S. 30, and west of U.S. 81), South Dakota (east of U.S. 81), Illinois (north of S.R. 116 west of Peoria; north of U.S. 24 east of Peoria), Wisconsin, Iowa, and southern Minnesota.

Note: See USE RATES and ROTATIONAL CROP RESTRICTIONS sections for recommendations applying to each Use Region.

WEEDS CONTROLLED

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

WEED	LEVEL OF CONTROL
GRASSES	
Barnyardgrass	Control
Corn, volunteer	Suppression
Crabgrass	Control
Crowfootgrass	Control
Cupgrass, Woolly	Control ¹
Foxtail	
Giant	Control
Green	Control
Robust	Control
Yellow	Control
Goosegrass	Control
Johnsongrass, seedling	Control
Panicum	
Browntop	Control
Fall	Control
Texas	Control
Sandbur, Field	Control
Shattercane	Control ¹
Signalgrass, Broadleaf	Control
Witchgrass	Control
BROADLEAF WEEDS	
Alligatorweed	Control
Beggarweed, Florida	Control ²
Bristly Starbur	Control
Burcucumber	Control ¹
Carpetweed	Control
Cocklebur, Common	Control
Copperleaf, hophornbeam	Control ³
Jimsonweed	Control
Kochia	Control
Lambsquarters, Common	Control
Mallow, Venice	Control
Mexicanweed	Control ²
Morningglory	
Entireleaf	Control ⁴
Ivyleaf	Control ⁴
Palm Leaf	Control
Pitted	Control
Smallflower	Control
Tall	Control ⁴
Mustard Species	Control
Nightshade, Eastern Black	Control

Pigweed	
Palmer	Control
Redroot	Control
Smooth	Control
Spiny	Control
Waterhemp, Tall	Control
Poinsettia, Wild	Control
Puncturevine	Control
Purslane	Control
Pusley, Florida	Control
Ragweed	
Common	Control
Giant	Control ⁵
Redweed	Control ¹
Sesbania, hemp	Control ³
Sicklepod	Control ⁶
Sida, Prickly (Teaweed)	Control
Smartweed	
Ladysthumb	Control
Pennsylvania	Control
Spurge	
Annual	Control
Prostrate	Control
Spotted	Control
Sunflower, Common	Control
Texasweed	Control ²
Velvetleaf	Control ⁷

SEDGES

Nutsedge, Yellow	Suppression ¹
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¹To obtain consistent control or suppression of these weeds under a wide range of environmental conditions, a preplant incorporated application is required. See SQUADRON plus Additional PROWL[®] 3.3EC herbicide section for directions regarding woolly cupgrass and shattercane.

²In USE REGION 1 ONLY. An application of SQUADRON will provide suppression of these weeds. A postemergence application of SCEPTER at 2/3 pint per acre or SCEPTER 70DG at 2.8 ounces per acre must be applied following a soil application of SQUADRON in a planned sequential program to control these weeds. Apply SCEPTER before weeds exceed the 1 to 2 true leaf stage.

³USE REGION 1 AND USE REGION 2. SCEPTER O.T. herbicide must be applied postemergence at 1 pint per acre following a soil application of SQUADRON for control of these weeds. The total amount of SCEPTER O.T. applied should not exceed 1 pint per acre in Use Region 2 or 2 pints per acre in Use Region 1 in one season following a soil application of SQUADRON. Refer to the SCEPTER O.T. label for application instructions. In Use Region 2, refer to the Rotational Crop Restrictions section of this label for special instructions on planting follow crops when using this program.

[®]Registered Trademark of American Cyanamid Company

⁴An application of SQUADRON will provide suppression of these weeds. For control of these morningglory species, the sequential program in Footnote #3 should be used.

⁵Some broadleaf weeds such as giant ragweed germinating deep in the soil or with subsequent flushes may require a cultivation or postemergence herbicide application for season long control.

⁶Only light to moderate infestations of sicklepod are controlled. Later sicklepod flushes may require a cultivation or a postemergence herbicide application. For heavy sicklepod infestations, the sequential program in footnote #2 may be used or Classic may be applied postemergence at 1/2 to 3/4 ounces per acre following a soil application of SQUADRON. Apply the higher rate of Classic if sicklepod seedlings are taller than 2 inches. A cultivation 14 days after Classic application may be required to control sicklepod escapes. Refer to the Rotational Crop Restrictions section of this label for instructions on planting follow crops when using this program. The Classic sequential program may be used only in Use Region 1 (except Oklahoma).

⁷A preplant incorporated application is recommended for velvetleaf control. A preemergence application of SQUADRON will aid in the control and reduce competition from velvetleaf.

DIRECTIONS FOR CONVENTIONAL, MINIMUM, AND NO-TILL APPLICATIONS

APPLICATION RATE

Apply SQUADRON at a rate of 3.0 pints per acre.

APPLICATION INSTRUCTIONS

SOIL APPLICATIONS

SQUADRON may be applied in conventional, minimum, or no-till as a preplant incorporated or preemergence application up to 45 days (30 days in Use Region 1) before planting. Preemergence applications may also be applied during or after planting but before the crop emerges. DO NOT apply postemergence (or at cracking) to soybeans.

Adequate moisture is required for activation of SQUADRON.

PREPLANT INCORPORATED APPLICATIONS

Apply SQUADRON before planting and incorporate uniformly into the top 1 to 2 inches of soil.

SQUADRON may be applied immediately before planting or up to 30 days prior to planting in Use Region 1. For Use Region 2 and Use Region 3, SQUADRON may be applied up to 45 days prior to planting. Incorporate within 7 days after application.

If soybeans are planted on beds, apply and incorporate after bed formation, using PTO-driven equipment or rolling cultivator.

PREEMERGENCE APPLICATIONS (including no-till)

Apply SQUADRON up to 45 days (30 days in USE REGION 1) before, during or after planting but before the crop emerges. As with other herbicides applied preemergence, rainfall or irrigation is necessary to activate SQUADRON in the soil. If sufficient rainfall or irrigation to activate SQUADRON is not received within 7 days after application, a thorough shallow tillage, cultivation, or postemergence herbicide treatment (as appropriate to the tillage system) may be required for control of emerged weeds.

HERBICIDE COMBINATIONS

For no-till uses, SQUADRON may be tank mixed with Gramoxone Extra², Roundup³, 2,4-D or 2,4-DB to kill existing vegetation. Use a minimum of 10 gallons of water per acre. Use higher gallonage for fields with dense vegetation or heavy crop residues. Use ground equipment only. Plant soybeans at least one inch deep and adjust planters to ensure adequate seed coverage.

²Registered Trademark of Zeneca Inc.

³Registered Trademark of Monsanto Agricultural Products Co.

When SQUADRON is tank mixed with Gramoxone Extra or Roundup, add SQUADRON to the tank first, next add PROWL 3.3EC (if used), then add Gramoxone Extra or Roundup. When Gramoxone Extra is used in a tank mixture, add 8 oz. of non-ionic surfactant per 100 gallons of spray mixture as the last ingredient in the tank.

SQUADRON should be used only in accordance with the directions on this label. Do not use SQUADRON in any tank mixes other than those specifically provided in this label. Always follow the more restrictive label limitations and precautions.

Soil Texture

The application rate of some herbicides which may be tank mixed with SQUADRON will vary with soil texture. Combination rate tables in this label refer to three soil texture groups: COARSE, MEDIUM, and FINE. The following table lists soil textures included in each of these three groups:

<u>COARSE</u>	<u>MEDIUM</u>	<u>FINE</u>
sands	sandy clay loams*	silty clay loams*
loamy sands	sandy clays	silty clays
sandy loams	loams	clay loams
	silt loams	clays
	silts	

*Sometimes considered transitional soils.

SQUADRON plus Additional PROWL 3.3EC herbicide Tank Mixture

PROWL 3.3EC can be tank mixed with SQUADRON and applied preplant incorporated or preemergence if heavy or difficult to control infestations are anticipated from grasses listed in this leaflet. SQUADRON plus PROWL 3.3EC must be applied preplant incorporated if shattercane or woolly cupgrass infestations are anticipated.

On coarse textured soils add PROWL 3.3EC at 0.6 pint per acre* and on medium and fine textured soils add PROWL 3.3EC at 0.6 to 1.2 pints per acre*.

See the PROWL 3.3EC 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 3.3EC label.

*PROWL 3.3EC rates are based on 3.3 pounds of active ingredient per gallon. If the 4.0 pounds of active ingredient per gallon formulation is used, multiply the above rates by 0.79.

SQUADRON plus Command 4EC Tank Mixture

Observe all precautionary statements in the Command⁴ 4EC label before using.

SQUADRON plus Command 4EC preplant incorporated tank mixture may be used when heavy infestations of velvetleaf are anticipated. Uniformly apply the tank mixture with properly calibrated ground equipment in 10 to 40 gallons of water or 20 or more gallons of liquid fertilizer per acre. 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 3 pints per acre of SQUADRON plus 0.25 to 0.5 pint (4 to 8 oz.) per acre of Command 4EC to the soil surface and uniformly incorporate. Refer to the Command 4EC label for incorporation requirements. DO NOT apply aerially or through irrigation systems. DO NOT apply this tank mixture to overly moist or wet soils.

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

When applied as directed, tank mixtures of SQUADRON plus Command 4EC control heavy infestations of velvetleaf as well as the weeds listed in the WEEDS CONTROLLED section of this label.

Use the high rate of Command 4EC when severe infestations of velvetleaf are anticipated.

Follow all rotational crop restrictions on the SQUADRON and Command 4EC 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.

SQUADRON Plus Metribuzin Tank Mixtures

Before using, observe all precautionary statements in the SQUADRON, Lexone⁵, and Sencor⁶ leaflet labels. SQUADRON may be applied in tank mix combination with Lexone or Sencor either preplant incorporated or preemergence, or SQUADRON may be applied preplant incorporated followed by a preemergence application of Lexone or Sencor. For preemergence applications, apply during or immediately after planting. These treatments will control Florida beggarweed, hemp sesbania, hophornbeam copperleaf and sicklepod in addition to the weeds controlled by a soil application of SQUADRON alone.

⁴Registered Trademark of FMC Corporation

⁵Registered Trademark of E. I. duPont de Nemours and Company

⁶Registered Trademark of Miles Company

Apply Lexone or Sencor at the broadcast rate per acre specified in the table below, in tank mix combination with 3 pints per acre of SQUADRON.

	<u>Lexone or Sencor Rate*</u>	
	4.0L	75%DF
Coarse Soils	1/2 pint	1/3 lb.
Medium Soils	1/2 pint	1/3 lb.
Fine Soils	2/3 pint	1/2 lb.

* DO NOT use Lexone or Sencor on coarse soils of less than 2% organic matter. Use 1/2 lb. or 2/3 pint of Lexone or Sencor on medium soils of greater than 4% organic matter.

Tank Mixtures with 2,4-D

2,4-D may be used with SQUADRON alone or in combination with other SQUADRON tank mixes prior to planting for control of some annual broadleaf weeds. Use the following rates of 2,4-D in tank mixtures with SQUADRON:

<u>2,4-D Formulation</u>	<u>Rate(lb a.i./A)</u>	<u>Minimum Days Before Planting</u>
Ester	0.5	7
Amine	0.5	15
Ester or Amine	1.0	30

Refer to 2,4-D label for weeds controlled. Observe all cautions and limitations on the 2,4-D label.

Tank Mixtures with 2,4-DB

2,4-DB may be used with SQUADRON alone or in combination with other SQUADRON tank mixes for control of some annual broadleaf weeds. Refer to the 2,4-DB label for specific use recommendations, rates and weeds controlled.

Observe all cautions and limitations on the 2,4-DB label.

Tank Mixtures with Roundup

Roundup may be used with SQUADRON alone or in combination with other tank mixes for the control of certain emerged grasses and broadleaf weeds. Refer to the Roundup label for specific use recommendations, rates and weeds controlled.

NOTE: The Roundup rate for tank mixes with SQUADRON is the same as the rate for Roundup used alone.

Observe all cautions and limitations on the Roundup label.

Tank Mixtures with Gramoxone Extra

Apply 1-1/2 to 2-1/2 pints of Gramoxone Extra per acre in SQUADRON tank mixtures. Use the 2-1/2 pint rate if weeds are 4 to 6 inches tall. Weeds over 6 inches may not be controlled with this treatment. Apply up to 14 days before, during or immediately after planting.

When Gramoxone Extra is included in a tank mixture, add a nonionic spreader surfactant at a rate of 8 fl. oz. per 100 gallons of spray mixture as the last ingredient in the tank.

Gramoxone Extra will control most annual emerged weeds and suppress many emerged perennials. Refer to the Gramoxone Extra label for specific use recommendations and weeds controlled.

Observe all precautions and limitations on Gramoxone Extra label.

MIXING INSTRUCTIONS

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

When tank mixing SQUADRON with recommended herbicides, add the SQUADRON to the spray tank first and make sure it is thoroughly mixed before adding the other herbicides.

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

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 40 gallons of water, or 20 or more gallons of liquid fertilizer per acre. Use higher gallonage for fields with dense vegetation or heavy crop residues. A spray pressure of 20 to 40 psi is recommended.

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.

To avoid injury to sensitive crops from drift, aerial application must adhere to the following SPECIAL AERIAL USE DIRECTIONS AND PRECAUTIONS:

- Use nozzles which produce a coarse spray.
- Nozzle height above ground must be a maximum of 10 feet.
- Nozzles must be pointed toward the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.
- To minimize wing-tip vortex roll, nozzles or spray boom must not be located any closer to end of wing or rotor than three-fourths the distance from the center of the aircraft.
- Use a maximum spray pressure of 40 psi.
- A buffer zone must be established between the area to be sprayed and sensitive crops.
- DO NOT spray when wind velocity is greater than 5 mph.

Applicator is responsible for any loss or damage which results from spraying SQUADRON 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.

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APPLICATIONS WITH FERTILIZERS

APPLICATIONS WITH LIQUID FERTILIZERS

SQUADRON can be applied with liquid fertilizers, alone or in combination with PROWL 3.3EC or Command 4EC. Follow all SQUADRON label recommendations regarding incorporation, timing of application, special instructions and precautions. Apply treatments in 20 or more gallons of liquid fertilizer per acre with ground equipment. Maintain continuous agitation in the spray tank to prevent separation. Use only flood nozzles with no nozzle screens to prevent clogging.

All individual state regulations relating to fluid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company selling the SQUADRON/liquid fertilizer mixture.

LIQUID FERTILIZER COMPATIBILITY DETERMINATIONS

If a liquid fertilizer and herbicide(s) mixture separates in the spray tank, clogged equipment and uneven application can result, which can cause poor weed control and crop injury. Always predetermine the compatibility of SQUADRON alone or with PROWL 3.3EC or Command 4EC in the specific liquid fertilizer to be used according to the following directions:

1. Add 1 pint of fertilizer to each of 2 one-quart jars.
2. Add 1/2 teaspoon of adjuvant* to one jar.
3. (a) When using SQUADRON alone, add to each jar the correct amount of SQUADRON as specified in the table below.

(b) When using SQUADRON plus PROWL 3.3EC or Command 4EC, first add the specified quantity of SQUADRON, then add the correct amount of PROWL 3.3EC or Command 4EC.
4. Close both jars and shake thoroughly for 10 seconds. Let them stand for 30 minutes and then observe the results. Look for signs of separation, an oily layer or globules, sludge, flakes or other precipitates.
5. Determine compatibility:
 - (a) If the mixture without adjuvant does not separate, use this mixture in your spray tank.
 - (b) If the mixture with adjuvant does not separate, but the one without adjuvant separates, use the adjuvant mixture in your spray tank. Add the adjuvant to the liquid fertilizer as directed on the manufacturer's label.
 - (c) If either mixture separates, but mixes readily with shaking, the mixture can be used providing good agitation is maintained in the spray tank.
 - (d) If separation of the mixture occurs, and agitation and/or adjuvant does not correct the problem, DO NOT use the herbicide(s) in that specific liquid fertilizer.

*Compex-Kalo Laboratories Inc, Kansas City MO; Sponto 168 D-Witco Chemical Co., Houston, TX; Unite-Hopkins Agricultural Chemical Co., Madison, WI; or other comparable adjuvants.

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Teaspoons of Specified Herbicide to be Added
to 1 Pint of Liquid Fertilizer Solution

Gallons of Liquid Fertilizer to be Applied per Acre	PROWL 3.3EC	SQUADRON	Command 4EC
20	1	2	1/3
30	2/3	1 1/2	1/4
40	1/2	1	1/6

APPLICATIONS WITH DRY BULK FERTILIZERS

SQUADRON may be impregnated on dry bulk fertilizers. When applied as directed, SQUADRON/dry bulk fertilizer mixtures provide weed control equal to that provided by the same rates of SQUADRON applied in water or liquid fertilizer.

Apply SQUADRON/dry bulk fertilizer mixtures only with ground equipment.

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

A minimum of 200 pounds and a maximum of 450 pounds of dry bulk fertilizer impregnated with the recommended amount of SQUADRON must be applied per acre.

DO NOT impregnate SQUADRON onto coated ammonium nitrate or limestone because these materials will not absorb the herbicide. Dry fertilizer blends containing mixtures of ammonium nitrate or limestone may be impregnated with SQUADRON. A minimum of 200 pounds of impregnated dry bulk fertilizer, excluding the weight of ammonium nitrate or limestone, must be applied per acre.

Apply SQUADRON at the rate of 3 pints per acre. Use the following table to determine the amount of SQUADRON to be impregnated on a ton of dry bulk fertilizer based on the rate of fertilizer which will be applied per acre.

**RATE CHART FOR IMPREGNATION OF DRY
BULK FERTILIZER WITH SQUADRON**

(Pints of SQUADRON per Ton of Fertilizer)

SQUADRON Rate Per Acre	Fertilizer Rate lbs/acre	Pints Per Ton
3 Pints	200	30
	250	24
	300	20
	350	17
	400	15
	450	13 1/3

For those rates not listed in this table, calculate the pints of SQUADRON to be impregnated on a ton of dry bulk fertilizer using the following formula:

$$\frac{2000}{\text{Pounds of dry fertilizer per acre}} \times \frac{3 \text{ pints of SQUADRON per acre (recommended rate)}}{1} = \frac{\text{Pir of SQUADRON per ton of fertilizer}}{1}$$

To impregnate SQUADRON on bulk fertilizer, use a closed rotary-drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment. Spray nozzles must be placed to provide uniform coverage of SQUADRON onto the fertilizer during mixing.

If PROWL 3.3EC is to be combined with the SQUADRON prior to impregnation, premix the PROWL 3.3EC with an equal volume of water before adding it to the SQUADRON. DO NOT mix undiluted PROWL 3.3EC with SQUADRON.

Apply the SQUADRON/dry bulk fertilizer mixture with an accurately calibrated dry fertilizer spreader. The SQUADRON/dry bulk fertilizer mixture must be spread uniformly on the soil surface. Uneven spreading can cause poor weed control and crop injury.

ROTATIONAL CROP RESTRICTIONS

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

<u>CROP</u>	<u>USE REGION 1</u>	<u>USE REGION 2</u> (except Michigan ³)	<u>USE REGION 3</u>
Soybeans	No restrictions	No restrictions	No restrictions
Wheat	4 months	4 months ⁴	See FOOTNOTE 5 & 6
Rice	Spring following SQUADRON application	Spring following SQUADRON application ⁴	---
Barley	11 months	11 months ⁴	See FOOTNOTE 5
Field Corn	11 months ¹	11 months ^{2,4}	See FOOTNOTE 5 & 6
Edible Beans	11 months	11 months ⁴	11 months
Grain Sorghum	11 months	11 months ⁴	11 months
Oats	11 months	11 months ⁴	See FOOTNOTE 5
Peanuts	11 months	11 months ⁴	11 months
Tobacco	11 months	11 months ⁴	11 months
Sugar Beets	26 months	26 months	26 months
Other Crops	18 months	18 months	See FOOTNOTE 7

1 For USE REGION 1 as defined by the USE AREA section of this label; field corn may be planted in the spring of the year following SQUADRON application unless extreme drought conditions develop (less than 15 inches of rainfall or irrigation is received within 6 months following the date of application).

2 For USE REGION 2 (except Michigan³) 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 application unless extreme drought conditions develop (less than 15 inches of rainfall or irrigation is received from two weeks prior to the date of SQUADRON application through November 15 of the same year).

If the minimum rainfall requirement is not met, only field corn hybrids which possess tolerance or resistance to SQUADRON and other imidazolinone herbicides may be planted the spring of the year following a SQUADRON application (SEE NOTE).

- 3 Growers in the counties of Berrien, Cass, St. Joseph, Branch, Hillsdale, Lenawee, Monroe, Van Buren, Kalamazoo, Calhoun, Jackson, Washtenaw, and Wayne may use the rotational crop restrictions for Use Region 2.

Growers in other Michigan counties may NOT plant oats or barley in the fall or spring of the year following a SQUADRON application. In this geography, only field corn hybrids which possess tolerance or resistance to SQUADRON and other imidazolinone herbicides may be planted the spring of the year following an application of SQUADRON (SEE NOTE).

- 4 ROTATIONAL CROP RESTRICTIONS for a sequential application of SCEPTER O.T. following a soil application of SQUADRON (Use Region 2 only):

For Use Region 2 as defined in the USE AREA section of this label; soybeans may be planted anytime. Barley, edible beans, grain sorghum, oats, peanuts, rice, tobacco, and wheat may be planted 15 months after the last herbicide application. Cotton may be planted 18 months after the last herbicide application.

Only field corn hybrids which possess tolerance or resistance to SQUADRON and other imidazolinone herbicides may be planted the spring of the year following a sequential application (SEE NOTE). Other field corn varieties may be planted 15 months after the last herbicide application.

- 5 For USE REGION 3 as defined in the USE AREA section of this label, DO NOT plant field corn, wheat, barley, or oats as rotational crops in the fall or in the spring of the year following SQUADRON application.
- 6 In Nebraska, east of U.S. 283, south of U.S. 30, and west of U.S. 81; wheat may be planted 4 months after a SQUADRON application. In this geography, only field corn hybrids which possess tolerance or resistance to SQUADRON and other imidazolinone herbicides may be planted the spring of the year following an application of SQUADRON (SEE NOTE).
- 7 For USE REGION 3 as defined in the USE AREA section of this label; canola, table beets, strawberries, cabbage, tomatoes, potatoes, carrots, celery, cole crops, garlic, onions, spinach, asparagus, cauliflower, and broccoli may be planted 26 months after a SQUADRON application. Other crops may be planted 18 months after a SQUADRON application.

ROTATIONAL CROP RESTRICTIONS for sequential Classic application following SQUADRON soil treatments:

Soybeans may be planted anytime. Barley, edible beans, field corn, grain sorghum, oats, peanuts, rice, tobacco, and wheat may be planted 15 months after the last herbicide application. Cotton may be planted 18 months after the last herbicide application. Refer to rotational crop restrictions listed in the Classic label. Always follow the more restrictive label.

NOTE: Contact your chemical dealer, seed supplier, or American Cyanamid to obtain information regarding the availability of imidazolinone tolerant field corn hybrids which are adapted to your area.

Use of SQUADRON herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with use of this product and, therefore, rotational crop injury is always possible.

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

Except where stated on a Supplemental Label or in this label, DO NOT apply products containing chlorimuron ethyl (e.g. Classic, Canopy⁷, Gemini⁷, Lorox Plus⁷, Preview⁷, etc.), imazaquin (e.g. SCEPTER[®], TRI-SCEPT[®], etc. [except as noted in this label]), or imazethapyr (e.g. PURSUIT, PURSUIT[®] PLUS, PASSPORT[®], etc.) the same year as SQUADRON or injury to follow crops may occur.

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

⁷Registered Trademarks of E.I. du Pont de Nemours and Company.
[®]Registered Trademarks of American Cyanamid Company.

WEED SCIENTIFIC NAMES

GRASSES

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

BROADLEAF WEEDS

Alligatorweed	(<i>Alternanthera philoxeroides</i>)
Beggarweed, Florida	(<i>Desmodium tortuosum</i>)
Bristly Starbur	(<i>Acanthospermum hispidum</i>)
Burcucumber	(<i>Sicyos angulatus</i>)
Carpetweed	(<i>Mollugo verticillata</i>)
Cocklebur, Common	(<i>Xanthium strumarium</i>)
Copperleaf, hophornbeam	(<i>Acalypha ostryifolia</i>)
Jimsonweed	(<i>Datura stramonium</i>)
Kochia	(<i>Kochia scoparia</i>)
Lambsquarters, Common	(<i>Chenopodium album</i>)
Mallow, Venice	(<i>Hibiscus trionum</i>)
Mexicanweed	(<i>Caperonia castanifolia</i>)
Morningglory	
Entireleaf	(<i>Ipomoea hederacea</i> var. <i>intergriuscula</i>)
Ivyleaf	(<i>Ipomoea hederacea</i>)
Palm Leaf	(<i>Ipomoea wrightii</i>)
Pitted	(<i>Ipomoea lacunosa</i>)
Smallflower	(<i>Jacquemontia tamnifolia</i>)
Tall	(<i>Ipomoea purpurea</i>)
Mustard Species	(<i>Brassica</i> spp.)
Nightshade, Eastern Black	(<i>Solanum ptycanthum</i>)
Pigweed	
Palmer	(<i>Amaranthus palmeri</i>)
Redroot	(<i>Amaranthus retroflexus</i>)
Smooth	(<i>Amaranthus hybridus</i>)
Spiny	(<i>Amaranthus spinosus</i>)
Waterhemp, Tall	(<i>Amaranthus tuberculatus</i>)

Poinsettia, Wild	(<i>Euphorbia heterophylla</i>)
Puncturevine	(<i>Tribulus terrestris</i>)
Purslane	(<i>Portulaca oleracea</i>)
Pusley, Florida	(<i>Richardia scabra</i>)
Ragweed	
Common	(<i>Ambrosia artemisiifolia</i>)
Giant	(<i>Ambrosia trifida</i>)
Redweed	(<i>Melochia corchorifolia</i>)
Sesbania, hemp	(<i>Sesbania exaltata</i>)
Sicklepod	(<i>Cassia obtusifolia</i>)
Sida, Prickly (Teaweed)	(<i>Sida spinosa</i>)
Smartweed	
Ladysthumb	(<i>Polygonum persicaria</i>)
Pennsylvania	(<i>Polygonum pensylvanicum</i>)
Spurge	
Annual	(<i>Euphorbia</i> spp.)
Prostrate	(<i>Euphorbia humistrata</i>)
Spotted	(<i>Euphorbia maculata</i>)
Sunflower, Common	(<i>Helianthus annuus</i>)
Texasweed	(<i>Caperonia palustris</i>)
Velvetleaf	(<i>Abutilon theophrasti</i>)

SEDGES

Nutsedge, Yellow	(<i>Cyperus esculentus</i>)
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