



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

1812-361

Date of Issuance:

MAY 24 1995

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

GX-409

Name and Address of Registrant (include ZIP Code):

Griffin Corporation
P.O. Box 1847
Valdosta, GA 31603-1847

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/reregistered 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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes listed below before you release the product for shipment:

a. Add the phrase, "EPA Reg. No. 1812-361".

b. In the WPS text use the phrase "chemical resistant footwear".

Signature of Approving Official:

Date:

MAY 24 1995

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3. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

The alternate formulas A1 and A3 are acceptable. Alternate formula A2 is still under review and may not be used to formulate this product until it is approved.

James M. Stone
Acting Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

Super Boll™

Plant Regulator

MAY 24 1995

Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product is registered for use as a plant regulator. EPA Reg. No. 1812-361

ACTIVE INGREDIENT

Ethephon (2-Chloroethyl) phosphonic acid..... 55.4%

INERT INGREDIENTS..... 44.6%

TOTAL..... 100.0%

This product contains 6 pounds ethephon per gallon

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

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

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a gentle stream of water for at least 15 minutes. Get medical attention, preferably an ophthalmologist.

IF ON SKIN: Immediately wash skin with plenty of soap and water.

IF SWALLOWED: Do not induce vomiting. Promptly drink a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration. Administer oxygen if necessary. Get medical attention.

NOTE TO PHYSICIAN

There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Over exposure to materials other than this product may have occurred. Victims of severe overexposure, by inhalation, should be kept under medical observation for up to 72 hours for delayed onset of pulmonary edema. In a victim of overexposure by ingestion, careful gastric lavage is required due to the possibility of stomach or esophageal perforation. This material is an acid, but use of alkaline substances to neutralize it is contraindicated.

See inside booklet for additional precautionary statements.

GRIFFIN CORPORATION
Valdosta, Georgia 31603

EPA REG. NO. 1812-

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
DANGER**

Corrosive. Causes eye and skin damage. May be fatal if absorbed through skin. Harmful if swallowed or inhaled. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Keep away from domestic animals.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Waterproof gloves
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical resistant headgear for overhead exposure
- Chemical resistant apron when cleaning equipment

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

Engineering Controls Statement: When handlers use closed systems, enclosed cabs, or aircraft 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 requirement 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not contaminate water used for irrigation or domestic purposes.

DIRECTIONS FOR USE

It is violation of federal law to use this product in 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.

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 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 intervals. 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 work . entry into treated areas during the restricted entry interval (REI) of 48 hours.

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

- Coveralls over short sleeved shirt and short pants
- Waterproof gloves
- Chemical resistant shoes ^{foot wear} plus socks
- Protective eyewear
- Chemical resistant headgear for overhead exposure

STORAGE AND DISPOSAL

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

If container is broken or contents have spilled, follow all precautions indicated above and clean up immediately. Before cleaning up put on full length trousers, long sleeved shirt, protective gloves, and goggles or face shield. Soak up spill with absorbent media such as sand, earth or other suitable material and dispose of waste at an approved waste disposal facility.

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) the empty containers. 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

COTTON

A foliar spray of Super Boll brand Ethephon will accelerate opening of mature unopened cotton bolls and enhance defoliation which can result in earlier harvest with an increased recoverable

yield. Super Boll treatment on cotton allows increased efficiency from a once over harvest.

TOBACCO (Flue-Cured)

A foliar spray of Super Boll promotes early, uniform yellowing of mature tobacco. Super Boll reduces curing time, allowing more efficient use of curing barn space and increased control over harvest schedules.

SPRAY PREPARATION

Add $\frac{1}{2}$ to $\frac{3}{4}$ of the required amount of water to the spray tank. Start agitation. Add the required amount of Super Boll and the remaining amount of water. Prepare only as much spray solution as can be used on the day of mixing. Do not allow spray solution to stand overnight. Do not spill the concentrated product on spray equipment, or any airplane parts.

ANY SPILLS SHOULD BE RINSED IMMEDIATELY WITH PLENTY OF WATER.

Use of a nurse tank is highly recommended for avoiding possible spills of concentrated formulation on spray equipment or any airplane parts.

TANK MIXTURES WITH DEFOLIANTS AND INSECTICIDES

Super Boll is compatible with DEF[®], FOLEX[®], Dropp[®], Harvade[®], Methyl Parathion, Guthion[®], and Malathion[™]. Super Boll may be applied in sequence or as a tank mixture (DO NOT TANK MIX WITH DESICCANTS IF COTTON IS TO BE SPINDLE HARVESTED). Follow all applicable use precautions and rate per acre recommendations on labels of product applied as tank mixtures or in sequence with Super Boll. In some cases slight reduction in boll opening response has been observed when tank mixes with defoliants were used.

Good agitation in the spray tank is essential and a tank mixture should not be allowed to stand without agitation for more than 5 to 10 minutes. Read and observe all appropriate label use directions and precautions for the defoliants and insecticides used.

NOTE: Under certain conditions, tank mixtures of Super Boll with desiccants containing sodium chlorate could result in the formation hypochlorous acids which on heating will emit toxic chloride fumes.

EQUIPMENT CLEANING

Because of the acidic nature of this product, prolonged exposure to spray deposit will damage acrylic plastics, certain paints and metals.

Rinse thoroughly with a detergent and water all exposed acrylic plastic type materials (e.g. aircraft windshields) and painted surfaced within an hour after exposure to spray deposits. At the end of each day, rinse thoroughly with a detergent and water all the metal parts of the aircraft and the associated spray equipment exposed to the spray deposits.

USE PRECAUTIONS

Do not apply Super Boll through any type of irrigation system.

Avoid spray drift to nearby crops as this product will cause modifications in plant growth. Plant injury or reduce yields will result.

Do not plant another crop within 30 days after treatment.

Mix only the amount of spray you expect to use each day. Do not allow solution to stand overnight.

COTTON

USE	EXPECTED CONDITIONS	Super Boll RATE		ONE GALLON Super Boll TREATS	SPRAY VOLUME (Gal/A)		APPLICATION TIMING
		Pints/A	Lbs A.I.	Acres	Ground	Air**	
Super Boll Boll Opener*	Hot and dry 80°F or higher	1 1/3	1.0	6			Apply when the number of mature unopened bolls is sufficient to produce the desired crop. See below for test of boll maturity. Treatment uniformly opens bolls 7-14 days earlier.
	Dry and 75 to 80°F	2	1.5	4	15-50	2-5	
	Cool but above 65°F or Rank cotton	2 2/3	2.0	3			
Super Boll + Folex Defoliant Tank Mix	High soil moisture or High fertility level or Rank cotton	1/3	0.25	24	15-50	5-10	Apply 4-7 days prior to Super Boll boll opening application. To be used as a sequential treatment with, not in place of Super Boll boll opening treatment.
Super Boll + Dropp Defoliant Tank Mix	High soil moisture or High fertility level or Rank Cotton	1/3	0.25	24	10-50	3-10	Apply 4-7 days prior to Super Boll boll opening application. To be used as a sequential treatment with, not in place of Super Boll boll opening treatment.
Pre-Conditioner for Defoliation	Hot, dry, above 80°F	2/3	0.5	12			Apply 4-7 days prior to defoliant. Enhances top crop defoliation reducing deterioration of bottom crop and allows for earlier harvest.
	Cool, above 65°F or Rank cotton	1 1/3	1.0	6	15-50	2-5	

*Pretreatment with defoliants prior to Super Boll boll opening treatment

If the cotton is overly rank or laying down in the middles and good spray coverage of the bolls with Super Boll is difficult, a pretreatment with defoliants will be useful to improve boll coverage with Super Boll. Use dosage rates of Super Boll recommended for boll opening. Read and observe all appropriate label use directions and precautions for the defoliant used.

**In California and Arizona use a volume of not less than 5 gallons per acre for aerial applications.

BOLL MATURITY

A boll is mature when it is too hard to be dented when squeezed between thumb and fingers, too hard to be sliced with sharp knife and when the seed coat becomes light brown in color.

USE LIMITATIONS

Do not exceed a maximum of 2.0 lb ai/A for combined uses of Super Boll per acre per year.

Boll Opening: Do not tank mix Super Boll with a desiccant if the cotton is to be spindle harvested.

Pre-Condition for Defoliation: Do not tank mix Super Boll with desiccant unless plant desiccation is required. Do not use a defoliant before there is sufficient mature unopened bolls to produce the desired yield (See General Information section on how to test for boll maturity).

WHEN TO HARVEST COTTON

Do not harvest cotton sooner than 7 days after a treatment with Super Boll.

Observe the treated crop and harvest when optimum boll opening has been reached. Too early harvest might reduce the full advantage of the treatment and too late a harvest may result in reduced quality and loss of lint which will drop from the plant.

TOBACCO (Flue-Cured Only)

Method of Use	Super Boll Pint/Acre	Spray Volume Gallons/Acre	Specific Directions
Directed Spray Application	1 1/3	50-60	Use drop nozzles. Choose TG or OC spray tips designed to apply 50-60 gpa at 35-40 psi and at tractor speed of 2-3 mph. Use 2 nozzles per row; one on each side of the row dropped low enough to direct the spray to the leaves to be ripened and harvested. Thorough spray coverage is essential. With a directed spray, be sure to harvest all leaves with 20% or more yellowing.
Over the Top Application	1 1/3-2 2/3	40-60	Treat only when leaves remaining on the stalk are mature. To ensure remaining leaves are mature, test spray several tobacco plants as described under the "Proper Time of Treatment" section. Use the lower rate in a normally mature crop when experience indicates that minimum ripening inducement is required. Use the higher rate when the crop is heavy and has a tendency to be more rank or when temperatures are lower than normal. Always test spray to determine if the tobacco is mature enough to respond to treatment with Super Boll. Apply over-the-top Super Boll spray as a fine mist using three nozzles (one nozzle tip over the center of the plant, and one on each side) so all leaves are covered thoroughly, similar to the application pattern of systemic sucker control agents. Use a spray pressure of 40-60 psi.

USE LIMITATIONS

Do not apply Super Boll to immature leaves as this can result in unsatisfactory coloring, weight loss and reduced leaf quality.

Do not allow the crop to over ripen in the field after using Super Boll, since this may cause some reduction in yield and quality.

Do not treat before anticipated major storm which could prevent harvest and result in crop loss.

Do not apply Super Boll if rain is expected within 4 hours.

APPLICATION TIMING

Successful results with Super Boll call for treatment when leaves are mature, not overly rank green when sprayed. To easily determine the proper treatment timing and the number of leaves per stalk ready for harvest, test spray several plants in more than one location in each field and observe the response. Mature leaves will begin to yellow in 24 to 72 hours. Test leaves that fail to yellow in 72 hours are not mature and are not ready for Super Boll treatment. Wait a few days to permit further natural maturing, then make another test spray or maturity check.

When you have confirmed the number of leaves per plant that will color, you can determine the number of acres to treat in order to fill the barn.

Prepare your test spray by mixing one teaspoon of Super Boll in 1 quart of water. Spray each test plant with about 1 oz of this mixture, covering all leaves with a fine mist. Super Boll will not color immature sprayed leaves.

WHEN TO HARVEST

All mature, sprayed leaves will begin to color within 24 to 72 hours after Super Boll application. The yellowing process is weather dependent. Cool weather will delay, while hot, sunny weather can speed up the process. Harvest treated tobacco when leaves have reached the desired color intensity.

Do not allow tobacco to become over ripe before starting harvest. Leaf drop can occur when tobacco is over ripe and left on the stalk. If a number of the bottom leaves have yellowed at the time of treatment, they should be harvested prior to spraying Super Boll.

With an over-the-top application, harvesting can commence 24 hours after Super Boll application depending on weather conditions or to avoid over ripe tobacco. Tobacco harvested 24 hours after treatment will require more time in the coloring phase of the curing process.

CURING Super Boll TREATED TOBACCO

Curing procedures are as much an art as a science and each cure must be judged on the basis of tobacco condition, interval between treatment and harvest, weather and type of curing facility before prescription temperature and ventilation schedules can be established. To obtain maximum quality, care must be taken to observe and control the curing process closely, especially during the late "coloring" and early "drying stages" of the leaf.

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Super Boll treated tobacco will have started the coloring process when harvested, reducing the time required in the coloring phase of curing. Treated tobacco should be dried faster. If tobacco leaves are green or contain some green when harvested, it may be necessary to color them for a few hours. If the leaves are completely yellow, temperature and ventilation must be adjusted in a manner to dry the tobacco as fast as possible without scalding. Once the leaf is dried (¾ dry), you should follow normal procedures for curing. Since Super Boll treated leaves cure faster, treated and untreated leaves should not be cured together in the same barn.

NOTICE OF WARRANTY

Griffin warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. 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 manner of use or application, all of which are beyond the control of GRIFFIN. In no case shall GRIFFIN be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. GRIFFIN MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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