



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

3125-423

Date of Issuance:

NOV 18 1994

NOTICE OF PESTICIDE:
 x Registration
 Reregistration

Term of Issuance:

Conditional, Expires:
November 18, 1995

(under FIFRA, as amended)

Name of Pesticide Product:

Admire 2.5 Granular

Name and Address of Registrant (include ZIP Code):

Miles Inc.
P.O. Box 4913
8400 Hawthorn Road
Kansas City, MO 64120-0013

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/reregistration 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)(B) provided that you:

1. Submit the data listed below according to the time frames listed with each data requirement:

a. Submit a new mallard reproduction study to establish the NOEC for eggshell thickness. This study must be received by the Agency by November 30, 1994.

b. Conduct a baseline field monitoring study to locate suitable sites and avian species (a species that would have high exposure to NTN on turf during the nesting reproduction period of this avian species). This study must be received by the Agency by November 30, 1994.

Signature of Approving Official:

DHE

Dennis H. Edwards, Product Manager (19)
Insecticide Branch Rodenticide Branch
Registration Division (H7505C)

Date:

NOV 18 1994

c. Once the appropriate avian species has been identified, you must demonstrate that this species has reasonable sensitivity in order to be used as an indicator species, ie shows reproductive impairment at levels that can expected to be found in the environment. These studies must be received by the Agency by December 30, 1995.

d. You must submit an acceptable avian reproduction monitoring study with the appropriate species. The study should be at least 2 years in length (2 full nesting seasons). This study must be submitted by December 31, 1997.

e. An annual progress report of the monitoring study must be submitted by September 30, of each year during the period this product is conditionally registered.

f. Two small scale prospective groundwater monitoring studies must be submitted. Monitoring must continue for at least two full years. Information, coordination and reports are due to the Agency according to the schedule listed below:

1. February 1995 - Discussions* with EPA personnel.
Begin site Selection.
2. March 1995 - Discussions* with EPA personnel.
3. April 1995 - Discussions* EPA personnel.
4. May 15, 1995 - Site selection report to be submitted.
Discussions* with EPA personnel.
5. June 1, 1995 - Site Approval
Discussions* with EPA personnel.
6. July 15, 1995 - Ground water protocols to be submitted
(site specific).
7. August 1995 - Discussions* with EPA personnel.
8. September 30, 1995 - Site instrumentation must be
submitted.
9. Spring 1996 - Application of test material. Ground water
monitoring to commence.
10. Spring 1998 - Submit request to terminate study.
Monitoring must continue until EPA grants permission
to terminate.
11. Once the monitoring studies have started quarterly
progress reports must be submitted to the Agency.

* Discussions can take the form of conference calls or meetings where needed.

12. Final reports must be submitted within 6 months of agreement to terminate the ground water studies.
- g. Three additional cotton field residue trials must be submitted. These trials must be from west Texas, New Mexico and west Oklahoma. These data must be submitted by March 30, 1995.
2. You will submit production information (pounds or gallons produced) for this product for the fiscal year in which the uses on cotton, potatoes, and apples are conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30. The production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

This information should be submitted to:

Registration Support Branch
Registration Division (7505C)
Environmental Protection Agency
Washington, DC 20460

3. Make the following label changes:

- a) Add the phrase, "EPA Registration No. 3125-423" to your label before you release the product for shipment.

- b) Add the following statement to the Environmental Hazard Statement: "This product is highly toxic to aquatic invertebrates."

4. Submit five (5) copies of your final printed labeling, with the changes referred to above, before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to can cancellation in accordance with FIFRA sec. 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.

Sincerely,

DHE

Dennis H. Edwards, Jr.
Product Manager 19
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure

Reason to Issue: To revise rotational crop statement, add mitigation measures for aquatic invertebrates and endangered species.

Date of Draft: 10/12/94(Pre-Reg)(C)
Supersedes Pre-Reg Draft: 08/23/94, 02/22/94, 10/25/93 and 08/19/93

ADMIRE 2.5 Granular

ADMIRE 2.5 Granular
Systemic Insecticide

FOR CONTROL OF CERTAIN INSECTS ON COTTON AND POTATO

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]	
-N-nitro-2-imidazolidinimine	2.5%
INERT INGREDIENTS	<u>97.5%</u>
	100.0%

EPA File Symbol No. 3125-UEG

Net Contents _____ Pounds

STOP - READ THE LABEL BEFORE USE

Keep Out Of Reach of Children

ACCEPTED
with COMMENTS
in EPA Letter Dated

NOV 18 1994

CAUTION

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
3125-423

AVISO

Si usted no entiende la etiqueta, busque a alguien
para que se la explique a usted en detalle.

(If you do not understand the label, find someone
to explain it to you in detail.)



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Water-proof gloves
- Shoes plus socks

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

Engineering controls statements:

- 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 requirements may be reduced or modified as specified in the WPS.

Use Safety Recommendations:

User 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.
- 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.

STATEMENTS OF PRACTICAL TREATMENT

If in eyes: Hold eyelids open and flush with plenty of water. Call a physician if irritation persists. **If swallowed:** Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or, if available, administer 1 tablespoonful (15 ml) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20

minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person. **If on skin:** Wash thoroughly with soap and water. Get medical attention if irritation occurs.

TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.

ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

Do not contaminate water when disposing of equipment washwaters.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

DIRECTIONS FOR USE

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

IMPORTANT: Read these entire DIRECTIONS FOR USE, GENERAL INFORMATION, AND CONDITIONS OF SALE before using ADMIRE 2.5 Granular systemic insecticide.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE APPROPRIATE FOR THE CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED UNDER DIFFERENT ENVIRONMENTAL CONDITIONS BOTH INDOORS AND OUTDOORS UNDER CONDITIONS SIMILAR TO THOSE THAT ARE ORDINARY AND CUSTOMARY WHERE THE PRODUCT IS TO BE USED. INSUFFICIENT CONTROL OF PESTS OR PLANT INJURY MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL CONDITIONS, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO ANIMALS, MAN, AND DAMAGE TO THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL ENVIRONMENTAL CONDITIONS, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and 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.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

- Coveralls
- Waterproof gloves
- Shoes plus socks

RESISTANCE: Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area.

RECOMMENDED APPLICATIONS - ADMIRE 2.5 GRANULAR			
CROP	PEST	RATE PER APPLICATION	REMARKS
Cotton	Thrips Aphids Whiteflies Plantbugs	13 ounces per 1000 row feet	<p>At-Planting Apply as a narrow band in-furrow, placing the granules at or below the seedline.</p> <p>Regardless of formulation or type of application (soil or foliar), do not apply more than a total of 0.5 lb active ingredient of ADMIRE per acre per season.</p> <p>Do not graze treated fields after any applications of ADMIRE.</p>
Potato	Colorado potato beetle Aphids Potato leafhopper Flea beetles Psyllids	9 to 13 ounces per 1000 row feet	<p>At-Planting Apply as a narrow band in-furrow.</p> <p>For best results, ensure that the granules are in contact with the seed pieces or seed potatoes.</p> <p>The higher rate is recommended when planting into muck soils, for seed potato production, or when extended length of control is needed.</p> <p>Regardless of formulation or type of application (soil or foliar), do not apply more than a total of 0.31 lb active ingredient of ADMIRE per acre per season.</p>

ADMIRE 2.5 GRANULAR CONVERSION CHART			
Ounces per 1000 Row Feet	Row Spacing	Pounds of Formulation per Acre	Pounds Active Ingredient per Acre
9	30	9.8	0.24
	34	8.7	0.22
	36	8.2	0.20
	38	7.7	0.19
	40	7.4	0.18
	42	7.0	0.18
13	30	14.2*	* Exceeds Max. Use Allowed
	34	12.5	0.31
	36	11.8	0.30
	38	11.2	0.28
	40	10.6	0.27
	42	10.1	0.25

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

Spray Drift Management: The interaction of many equipment and weather related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Buffer Zone Requirements: For soil or foliar applications, do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.

Recommendations For Aerial Applications: The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.

Importance of Droplet Size: An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure.

Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Wind Speed Restrictions: Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Restrictions During Temperature Inversions: Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature 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 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. 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 mixing.

Airblast (Air Assist) Specific Recommendations for Tree Crops: Airblast tree sprayers carry droplets into the canopy of trees via a radially, or laterally directed air stream. The following specific drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use only enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard, for applications to the outside rows.

Runoff Management: Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip.

When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Soil Conservation Service for recommendations in your use area.

ENDANGERED SPECIES

NOTICE: Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species.

County Specific Restrictions:

<u>State</u>	<u>County</u>	<u>Species of Concern</u>
Florida	Alachua	Squirrel Chimney Cave Shrimp
Alabama	Madison	Alabama Cave Shrimp
Virginia	Lee	Lee County Cave Isopod

Mitigation for the Conservancy Fairy Shrimp, California Freshwater Shrimp, Longhorn Fairy Shrimp, and California Linderella:

The use of ADMIRE will be restricted by requiring a 200-foot buffer zone between the site of application and any natural aquatic habitat (natural ponds, lakes, streams, rivers and wetlands) in the following counties:

<u>State</u>	<u>County</u>	<u>Species of Concern</u>
California	Butte	Conservancy Fairy Shrimp
	Merced	
	Napa	California Freshwater Shrimp
	Sonoma	Longhorn Fairy Shrimp
	Contra Costa	
	Alameda	California Linderella
	Contra Costa	
	Merced	
	Monterey	
	Napa	
Placer		
Riverside		
Sacramento		
San Joaquin		
San Luis Obispo		
San Mateo		
Santa Barbara		
Solano		
Sonoma		
Yuba		

Mitigation for the Valley Elderberry Longhorn Beetle:

The use of ADMIRE will be restricted by requiring a 200-foot buffer zone between the site of application and any natural rivers or streams in the following counties:

<u>State</u>	<u>County</u>	<u>Species of Concern</u>
California	El Dorado	Valley Elderberry Longhorn Beetle
	Fresno	
	Madera	
	Placer	
	Glenn	
	Sacramento	
	Sutter	
	Tehama	

Mitigation for the Karner Blue Butterfly:

The use of ADMIRE on potatoes will be restricted to soil applications, and the use of ADMIRE on apples should be avoided during times when exposure to butterflies may occur (i.e., flowering of apple trees) in the following counties:

<u>State</u>	<u>County</u>	<u>Species of Concern</u>
Michigan	Allegan Lake Monroe Muskegon Newaygo Oceana	Karner Blue Butterfly
Wisconsin	Clark Green Lake Jackson Juneau Sauk Waupaca Waushara	Karner Blue Butterfly
Illinois	Lake	Karner Blue Butterfly
New York	Saratoga Schenectady	Karner Blue Butterfly
New Hampshire	Merrimack	Karner Blue Butterfly

Mitigation for the Vernal Pool Fairy Shrimp/Tadpole Shrimp:

The use of ADMIRE will be restricted by requiring a 200-foot buffer zone between the site of application and any vernal pools in the following counties:

<u>State</u>	<u>County</u>	<u>Species of Concern</u>
California	Butte Contra Costa Merced Monterey Placer Riverside Sacramento San Joaquin San Luis Obispo Shasta Stanislaus Sutter Tehama Yolo Yuba	Vernal Pool Fairy Shrimp /Vernal Pool Tadpole Shrimp

Definition: Vernal pools are natural wetlands located in grasslands, pastures and other non-cultivated habitats that fill with water as the result of winter / spring rains, but dry up during the summer.

ROTATIONAL CROPS

Treated areas may be replanted with any crop specified on the ADMIRE label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application.

For crops not listed on the ADMIRE label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval should be observed.

ROTATIONAL PLANT-BACK INTERVALS¹

**Immediate
Plant-Back**

Cotton
Potatoes

**12-Month
Plant-Back**

All Other Crops

¹Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

STORAGE AND DISPOSAL

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

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

Container Disposal: Completely empty container into application equipment. Dispose of empty containers by incineration in a sanitary landfill, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container

and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If material is spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Material that cannot be used as directed should be disposed of as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response telephone number is 816-242-2582, or contact Chemtrec at 800-424-9300.

Miles Inc.
Crop Protection Products
Box 4913, Kansas City, MO 64120-0013