

PM 23

279-3194

9-30-98

10/6



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

EPA Reg. Number:
279-3194

Date of Issuance:
SEP 30 1998

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:
Conditional
Expires: 9/30/03
Name of Pesticide Product:
Aim Herbicide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia, Pennsylvania 19103

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)(C) provided that you:

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

2. Make the following label changes:

a. Revise the EPA Registration Number to read, "EPA Reg. No. 279-3194".

3. Under the "Statement of Practical Treatment", in the ocular Statement, delete the words "occurs and" so that the sentence reads: "...if irritation persists."

Signature of Approving Official:

Date:

SEP 30 1998

4. Under the "Precautionary Statements", in the second sentence, delete the word "minimal" and replace it with "moderate" so the sentence reads: "Causes moderate eye irritation, per the P Label Review Manual".

5. Submit two copies of the revised final printed label for the record.

6. Submit acceptable data to fulfill the following data requirements:

- a. A field rotational trial with a small grain other than wheat - DUE: 9/30/01
- b. An aqueous photolysis study - DUE: 9/30/99
- c. An early life stage fish study - DUE: 9/30/99

7. Spray drift advisory language is required for aerial application.

Further labeling or additional data may be required upon completion of our review of the product specific data for this product.

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

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

Joanne I. Miller
Product Manger (23)
Herbicide Branch
Registration Division (37505C)

Enclosure

Code 1572

Net Contents 3046



For Agricultural or Commercial Use Only

EPA Reg. No. 279-

EPA Est. 279-

Active Ingredient:	By Wt.
Carfentrazone-ethyl: Ethyl a,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate	40.0%
Inert Ingredients:	60.0%
	100.0%

Contains 40% W/W of active ingredient per pound of product
S. Patent No. 5,125,958

KEEP OUT OF REACH OF CHILDREN
CAUTION

STATEMENT OF PRACTICAL TREATMENT

If Inhaled: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If Swallowed: Call a medical doctor or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with a finger or by giving syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

If on Skin: Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

If in Eyes: Flush with plenty of water. Contact a medical doctor if irritation occurs and persists.

Note to Medical Doctor: Carfentrazone-ethyl 40DF is expected to have low oral and dermal toxicity, and moderate inhalation toxicity. It is expected to be slightly irritating to the skin and minimally irritating to the eyes. This product contains a granular material (sand) that may cause mechanical irritation to the eyes. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

Emergency Assistance Call Collect: (800) 331-3148

See other panels for additional precautionary information.

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

SEP 30 1998

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

279-3194



FMC Corporation
Agricultural Products Group
Philadelphia PA 19103

9/98 Draft

PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals)

Caution

Harmful if swallowed, absorbed through the skin or inhaled. Causes minimal eye irritation. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. 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.

User Safety Recommendations:

Users should:

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

Carfentrazone-ethyl is very toxic to algae and moderately toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the high water mark, except as specified on this label. Do not contaminate water when disposing of equipment washwaters.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system.

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.

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, and shoes plus socks.

STORAGE AND DISPOSAL

Pesticide Storage

Not for use or storage in or around the house.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put granule or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by inappropriate storage or disposal.

In case of spill, avoid contact, isolate area and keep out unprotected persons and animals. Confine spills. Call FMC: (800) 331-3148.

To confine spill: Dike surrounding area, sweep up spillage. Dispose of in accordance with information given under Pesticide Disposal. Wash spill area with water, absorb with sand, cat litter or commercial clay, sweep up and dispose of in an approved manner. Place damaged container in a larger holding container. Identify contents per required hazardous waste labeling regulations.

Pesticide Disposal

Waste resulting from the use of this product may be disposed of at an approved waste disposal facility.

Container Disposal

Plastic containers: Triple rinse (or equivalent). Then offer for approved pesticide container recycling program, or puncture and dispose of in an approved waste disposal facility. Provided on site incineration is allowed by state and local authorities, stay out of smoke.

GENERAL INFORMATION

Aim Herbicide is a water dispersible granule formulation. It is designed to be mixed with water and applied to corn (field, seed, popcorn, and silage), soybeans, and wheat for selective postemergence control of broadleaf weeds. Weed control is best when the product is applied to small actively growing weeds (1-4 inches in height). Aim is a contact herbicide with little or no residual activity at recommended use rates.

Aim is rapidly absorbed through the foliage of plants. The herbicide is rain fast within one hour after application. Within a few hours following application, the foliage of susceptible weeds show signs of desiccation, and in subsequent days necrosis and death of the plant. Due to environmental conditions and certain spray tank additives, some herbicidal symptoms may appear on the crop. However, the crop recovers quickly with no loss in yield.

Extremes in environmental conditions e.g. temperature and moisture, soil conditions, and cultural practices may affect the activity of Aim. Under warm moist conditions, herbicide symptoms may be accelerated. While under very dry conditions, the expression of herbicide symptoms is delayed, and weeds hardened off by drought are less susceptible to Aim.

Unless specified on this label, do not tank mix Aim with EC formulations of other herbicides or with crop oil concentrate as excessive crop injury may occur. Under very dry soil moisture conditions, the use of crop oil concentrate (1% v/v or 1 gallon per 100 gallon spray solution) may be used to improve weed control. However, the use of crop oil concentrate may increase crop response.

Mixing and Loading Instructions:

Fill the spray tank 3/4 full with clean water. Make sure the agitation system is operating. Add the recommended amount of Aim and complete filling the spray tank to the desired level. The spray tank agitation should be sufficient to ensure uniform spray mixture during application. When tank mixing with other products, Aim should be mixed first in the spray tank. After the product is thoroughly mixed, add the other products as specified on their label. Ensure the compatibility of other products with Aim before mixing them together in the spray tank.

Do not use with tank additives that alter the pH of the spray solution below pH5 or above pH 8. Buffer spray solution to alter the pH range as appropriate.

Ground Applications:

For best spray distribution and coverage, select a spray volume and delivery system that will ensure accurate and uniform coverage. Use a standard boom sprayer equipped with appropriate nozzles, tips, and screens. Use flat fan nozzle tips and in-line strainers equipped with no finer than 50 mesh screens.

Do not use flood nozzles, Raindrop®, or nozzle tips larger than 8008. Spray droplets larger than 400 microns may reduce coverage and subsequent loss in weed control. Applications should be made using finished spray volumes of 10-20 gallons per acre. Use higher spray volumes when there is a dense weed population or crop canopy. Use spray pressures of 20-40 psi.

Do not apply when conditions are conducive to spray drift or poor spray coverage.

Before using sprayer equipment exposed to Aim, clean equipment thoroughly using the following procedure:

1. Drain sprayer tank, hoses, and boom and thoroughly rinse the inside of the sprayer tank free of visible sediment and residues. Flush through sprayer hoses, boom and nozzles.
2. Fill the tank 1/2 full with clean water, and add appropriate detergent (follow manufacturer's directions for use). Fill the tank to capacity and operate the sprayer for 15 minutes to flush hoses, boom and nozzles.
3. Drain the sprayer system. Rinse the tank with clean water and flush through the hoses and boom. Remove and clean nozzles separately.

CORN: FIELD AND SEED, POPCORN, CORN SILAGE

TIMING AND METHOD OF APPLICATION

Apply Aim Herbicide alone or as a tank mixture with other herbicides to emerged and actively growing weeds. Apply to corn postemergence up to 8 leaf collar growth stage. Do not apply when conditions favoring drift exist or wind is above 10 mph. Do not apply more than 1.24 oz. per season.

For best results, apply to weeds 1-4 inches tall. Use tank mixes with other herbicides for more mature weeds, weeds under drought stress, or weeds with dense vegetative growth.

To control weeds not listed on this label, Aim Herbicide may be tank mixed with other herbicides registered for use in corn. Refer to the other product's label for restrictions on tank mixing, and observe all label precautions, instructions, and rotational cropping restrictions.

Early Postemergence (all tillage systems)

Aim (1/3 oz. per acre) plus 0.25% v/v nonionic surfactant (2 pints per 100 gallons of spray solution) controls the following weeds:

Weeds (1-4 inches tall)

Nightshade, Black Common Lambsquarters

Pigweed, Redroot

Morningglories, Ivyleaf and Pitted (2-3 true inches tall)

Velvetleaf (up to 36 leaves)

Tank Mixtures

Aim may be tank mixed with other herbicides to control weeds not listed on this label or to control more mature weeds or dense vegetative growth. Read and follow all manufacturer's label recommendations for the companion herbicide except for specific recommendations on this label. Unless specified on this label, do not tank mix Aim with EC formulations of other herbicides or with crop oil concentrate as excessive crop injury may occur. When tank mixing Aim with other products, be sure the Aim is mixed in the spray tank water first.

With adjuvants

Add a nonionic surfactant having at least 80% active ingredient strength at 0.25% v/v (2 pints per 100 gallons of spray solution). Under very dry conditions the use of a crop oil concentrate may improve weed control. The use of a crop oil concentrate may increase leaf speckling on the treated leaves of corn.

With Atrazine

Aim (1/3 oz. per acre) may be tank mixed with Atrazine 4L (16 fl. oz./acre) or Atrazine 90DF (9 oz per acre) to control the following weeds:

Weeds (1-4 inches tall)

Amaranth, Palmer

Nightshade, Eastern Black

Amaranth, Spiny

Nightshade, Silverleaf

Buffalobur

Pigweed, Redroot

Carpetweed

Pigweed, Smooth

Cocklebur, Common

Pigweed, (Triazine resistant)

Croton, Woolly

Purslane, common

Devilsclaw

*Ragweed, Common

Eveningprimrose, Cutleaf

Sesbania, Hemp

Hophornbean Copperleaf

*Smartweed, annual

Jimsonweed

Spurred Anoda

Lambsquarters, Common

Velvetleaf

Morningglory, Entireleaf

VeniceMallow

Morningglory, Ivyleaf

Waterhemp, Common

Morningglory, Pitted

Waterhemp, Tall

Morningglory, Scarlet

*Ragweed, Giant

Morningglory, Tall

*Sunflower, Wild

*Suppression or partial control

For giant and common ragweeds, annual smartweeds, and wild sunflower

Aim plus atrazine can be tank mixed with 2,4D, Banvel® or Clarity® herbicides for control of giant and common ragweeds, annual smartweeds and wild sunflower. Add 2,4D (amine) to the tank mix at 0.125 - 0.25 lb. active ingredient per acre or Banvel® or Clarity® at 3-4 fl oz. per acre. Higher rates of Atrazine, Banvel or Clarity herbicides can be used, but do not exceed the recommended label use rates allowed by these labels. Add a 0.25% v/v nonionic surfactant (2 pints per 100 gal) to the tank mixture, or under very dry soil moisture conditions, the use of crop oil concentrate (1% v/v or 1 gallon per 100 gallon spray solution) may improve weed control. However, the use of crop oil concentrate may increase crop response.

With Banvel® or Clarity®

Aim (1/3 oz per acre) plus 0.25% v/v nonionic surfactant (2 pints per 100 gal) can be tank mixed with Banvel® or Clarity® herbicides (8 fl oz per acre) for control of general broadleaf weeds including the following:

Weeds (1-4 inches tall)

- Cocklebur, common
- Lambsquarters
- Momingglory, Entireleaf
- Momingglory, Ivyleaf
- Momingglory, Pitted
- Momingglory, Scarlet
- Momingglory, Tall
- Nightshade, Black
- Redroot
- Pigweed, Smooth
- Pigweed (triazine resistant)
- Ragweed, Common
- Ragweed, Giant
- Smartweed, Pennsylvania
- Velvetleaf
- Waterhemp, Tall and Common

Refer to the Banvel or Clarity labels for additional weed listings and for higher use rates.

With other herbicides

For control of additional broadleaf weeds and grasses, Aim may be tank mixed with Accent®, Basis®, Beacon®, Exceed®, Hornet®, Marksman®, Permit®, Scorpion III®, Spirit®, and Liberty®.

Unless specified on this label, do not use crop oil concentrate, nitrogen fertilizers or mix Aim with EC formulations of other herbicides in any tank mix except as specified on this label as excessive crop injury may occur. Read and follow all manufacturer's label recommendations on this label.

SOYBEANS

TIMING AND METHOD OF APPLICATION

Application of Aim Herbicide should be made after planting to emerged and actively growing weeds. Aim Herbicide should be applied as a postemergence treatment up to the third trifoliolate soybeans. Do not apply when conditions favoring drift exist. Do not apply more than once per season.

For best performance, make application when weeds are in the 1 to 3 inch leaf stage and rosettes are less than 3 inches across. Use the higher level of listed rates when treating more mature weeds or dense vegetative growth.

Aim may be tank mixed with other herbicides registered for use on soybeans to broaden the weed control spectrum compared to the products alone. Observe all precautions, instructions and rotational cropping guidelines of each product's label when tank mixing.

Rates and Number of Applications

Make a single application of 0.16 to 0.31 ounces per acre of Aim Herbicide as a postemergence treatment.

546
Applications should be made using a finished volume of 10 to 40 gallons of finished spray per acre. When applied as directed, Aim will control the following weeds:

Weeds (up to 4 inches tall)

- Nightshade, Black
- Velvetleaf
- Hophornbean Copperleaf
- Carpetweed

WHEAT

TIMING AND METHOD OF APPLICATION

Apply Aim Herbicide alone or as a tank mixture with other wheat herbicides to emerged and actively growing weeds. For wheat planted in the fall or spring, apply Aim postemergence to the crop up to the jointing stage of growth. Do not apply when conditions favoring drift exist. Do not apply more than 1.24 ounces per season.

For best results, apply to weeds less than 4 inches tall. Use the higher rates for more mature weeds, weeds under drought stress, or weeds with dense vegetative growth. Add a high quality sprayable liquid nitrogen fertilizer at 2-4% v/v or 2-4 gal per 100 gal spray solution. Aim may be mixed in water or in liquid nitrogen fertilizers used as carriers.

When the crop and weeds are under very dry soil moisture conditions the use of a nonionic surfactant (0.25% v/v) in addition to the liquid nitrogen fertilizer (2-4% v/v) may be used.

In Texas, Oklahoma, and New Mexico, use a nonionic surfactant 0.25% v/v (32 fl. oz. per 100 gallons of spray solution) having at least 80% active ingredient. When wheat is grown in these states under very dry soil moisture conditions, a high quality sprayable liquid nitrogen fertilizer (2-4% v/v or 2-4 gallons per 100 gallons spray solution) may be used in addition to the nonionic surfactant.

To control weeds not listed on this label, Aim may be tank mixed with other herbicides registered for use in wheat. Refer to the other product's label for restrictions on tank mixing, and observe all label precautions, instructions, and rotational cropping restrictions.

Use Rates

Aim (0.92 to 1.24 oz per acre) controls the following weeds:

Weeds (up to 4 inches)

<u>0.92 oz. of product per acre</u>	<u>*1.24 ounces per acre</u>
Bedstraw, Catchweed	Bittercress
Flixweed	Buckwheat, Wild
Lambsquarters	Flaree, Redstem
Mustard, Tansy	Kochia
	Mustard, Tumble
Nightshade, Black	Mustard, Wild
Pennycress, Field	Rapeseed, Volunteer
Pigsweeds	Shepherdspurse
Wallflower, Bushy	Sowthistle, Annual
	Thistle, Russian

* This rate controls all weeds listed under both columns.

Tank Mixtures

Aim may be tank mixed with other herbicides to control weeds not listed on this label or to control more mature weeds or dense vegetative growth. Read and follow all manufacturer's label recommendations for the companion herbicide except for specific recommendations on this label. Unless specified on this label, do not tank mix Aim with EC formulations of other herbicides or with crop oil concentrate as excessive crop injury may occur. When tank mixing Aim with other products, be sure the Aim is mixed in the spray tank solution first.

With liquid nitrogen fertilizers

Add a high quality sprayable grade nitrogen fertilizer (liquid nitrogen fertilizer at 2-4% v/v or 2-4 gal per 100 gal of spray solution or ammonium sulfate at 2-4 lb per acre) to the spray mixture. When liquid fertilizer is used as the carrier, slurry the Aim in water, and add it to the fertilizer solution.

With 2,4D (amine) or MCPA (amine)

Aim (0.92-0.124 ounces per acre) may be tank mixed with 2,4D or MCPA for use on wheat. For best results add 2,4D to the tank at 0.25 lb acid equivalent per acre or MCPA at 0.375 lb acid equivalent per acre. Higher rates of these herbicides can be used, but do not exceed the recommended label use rates allowed by these labels. Add nitrogen fertilizer (2-4% v/v 2-4 gal per 100 gal or ammonium sulfate 4 lb per acre) to the tank mixture. When applied as directed, Aim in tank mixtures with 2,4D or MCPA herbicides will control the following weeds:

Weeds (up to 4 inches)*

- Bedstraw, Catchweed
- Buckwheat, Wild
- Bushy Wallflower
- Croton, Woolly
- Evening Primrose, Cutleaf
- Fiddleneck
- **Flaxweed
- Gromwell, Common
- Groundsel, Common
- *Knotweed, Prostrate
- Kochia (including Kochia resistant to other herbicides)
- Lambsquarters, Common
- Lettuce, Minors
- Lettuce, Prickly
- **London Rocket
- *Mustard, Blue
- *Mustard, Tansy
- *Mustard, Tumble
- **Mustard, Wild
- Nightshade, Black
- Nightshade, Silverleaf
- **Pennygrass, Field
- **Pepperweed, Greenflower
- Pigweed, Prostrate
- Pigweed, Redroot
- Pigweed, Smooth
- Pigweed, Tumble
- Radish, Wild
- Speedwell, Ivy leaf
- Sowthistle
- Sunflower, Wild
- Tarweed, Coast
- Thistle, Russian (including Russian Thistle resistant to other herbicides)
- Waterhemp, Tall

* For Knotweed control, use Aim + 2,4D mix; Apply to rosette growth stage (before bolting) of blue mustard.

**These weeds can be treated from the rosette thru bolting growth stages.

With other herbicides

For control of additional broadleaf weeds and grasses, Aim may be tank mixed with Ally®, Amber®, Assent®, Banvel®, Express®, Finesse®, Harmony Extra®, Hoelon®, Peak®, 2,4D (amine), and MCPA (amine). Unless specified on this label, do not tank mix Aim with EC formulations of other herbicides or with crop oil concentrate as excessive crop injury may occur.

Crop Rotation for applications in corn, soybeans, and wheat

Any crop may be planted after 30 days following an application of Aim except small grains crops that do not have an established crop tolerance. Follow rotation statements on tank mix products if they are more restrictive.

Dealers Should Sell in Original Packages Only.

Terms of Sale or Use: On purchase of this product buyer and user agree to the following conditions:

Warranty: FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

Directions and Recommendations: Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

Use of Product: FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

Damages: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

Raindrop - Trademark of Delavan Corporation
Marksman, Banvel and Clarity - Trademarks of BASF Corporation
Accent, Basis, Express, Finesse, and Harmony Extra - Trademarks of E.I. DuPont de Nemours and Co., Inc.
Amber, Beacon, Exceed, Peak and Spirit - Trademarks of Novartis Corporation
Hoelon and Liberty - Trademarks of AgrEvo USA Company
Homet and Scorpion III - Trademarks of Dow AgroSciences LLC
Permit - Trademark of Monsanto Corporation
Assert - Trademark of American Cyanamid Corporation

(1572-Aim40c1w - 5/98A)