



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other

OPP Identifier Number

259850

Application for Pesticide - Section I

1. Company/Product Number: 241-377
2. EPA Product Manager: J. Tompkins
3. Proposed Classification: None
4. Company/Product (Name): LIGHTNING herbicide
5. Name and Address of Applicant: American Cyanamid Company, Agricultural Products Research Division, P.O. Box 400, Princeton, NJ 08543-0400
6. Expedited Review: In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated. "Me Too" Application. Other - Explain below. NOTIFICATION SEP 30 1999

Explanation: Use additional page(s) if necessary. (For section I and Section II.) Minor label changes.

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container: Metal, Plastic, Glass, Paper, Other (Specify), 3. Location of Net Contents Information, 4. Size(s) Retail Container, 5. Location of Label Directions, 6. Manner in Which Label is Affixed to Product

Section - IV

1. Contact Point: Name: Laura L. Whatley, Title: Global Regulatory Manager, Telephone No.: 609-716-2283
Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete...
2. Signature: Laura L. Whatley, Title: Global Regulatory Manager
4. Typed Name: Laura L. Whatley, 5. Date: September 24, 1999
6. Date Application Received (Stamped)



Supplemental Labeling

EPA Reg. No. 241-377

2/5

FOR USE ONLY ON CLEARFIELD* CORN SEED HYBRIDS

DIRECTIONS FOR THE USE OF LIGHTNING HERBICIDE IN COMBINATION WITH METHYLATED SEED OILS (CLEARED FOR APPLICATION TO GROWING CROPS) AND CROP OILS AS ADJUVANTS

NOTIFICATION

SEP 30 1999

OBSERVE ALL PRECAUTIONARY STATEMENTS ON THE LIGHTNING LEAFLET LABEL BEFORE USING. SEE THE LIGHTNING LEAFLET LABEL FOR PRECAUTIONS, WORKER PROTECTION STANDARD REQUIREMENTS, APPLICATION INFORMATION, USES WITH OTHER PRODUCTS AND ROTATIONAL CROP RESTRICTIONS.

GENERAL INFORMATION

Apply LIGHTNING herbicide only on selected field corn hybrids (CLEARFIELD corn) warranted by the seed company to possess resistance/tolerance to direct application of LIGHTNING.

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 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.

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

Observe all cautions and limitations on this label and on the labels of products used in combination with LIGHTNING. Do not use LIGHTNING other than in accordance with the instructions set forth on this label. The use of LIGHTNING not consistent with this label may result in injury to crops.

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

USE OF ADJUVANTS WITH LIGHTNING

APPLICATIONS OF LIGHTNING REQUIRE THE ADDITION OF AN ADJUVANT AND FERTILIZER**

I. ADJUVANTS

SURFACTANTS: Use a non-ionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 quart per 100 gallons (0.25% vol./vol.). An organo-silicone surfactant may be used in place of a non-ionic surfactant.

OR

CROP OIL CONCENTRATE: Instead of a surfactant, a petroleum or vegetable seed based oil concentrate (such as SUN-IT II¹) or methylated seed oil may be beneficial under the conditions listed below:

1. Hot arid environmental conditions when weeds may be under stress and less susceptible to herbicide applications.
2. For improved control in heavy infestations of weeds such as woolly cupgrass, large crabgrass and field sandbur or when approaching maximum labeled heights.

Apply crop oil concentrates or methylated seed oils at the rate of 1 gallon per 100 gallons (1% vol./vol.).

(continued on back)

** LIGHTNING herbicide applications may be made without fertilizer in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, South Carolina, Tennessee, and the Bootheel of Missouri.

II. FERTILIZER

Recommended nitrogen based fertilizers include liquid fertilizers (such as 28%N, 32%N, or 10-34-0) at the rate of 1-2 quarts per acre. Use the higher rate when weeds are under moisture or temperature stress. Instead of a liquid fertilizer, spray grade ammonium sulfate may be used at the rate of 2.5 pounds per acre.

MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 to 3/4 full with clean water.
2. Add LIGHTNING and thoroughly mix.
3. Add other aqueous solution products.
4. Add other soluble packet products and thoroughly mix.
5. Add WP (wetable powder), DG (dispersible granule), DF (dry flowable), or LF (liquid flowable) formulations.
6. Add EC (emulsifiable concentrate) products.
7. Add adjuvant to the spray tank.
8. Add liquid fertilizer.
9. While agitating, fill the remainder of the tank with water.

SLURRY PREPARATION

LIGHTNING may be slurried prior to addition to the spray tank.

1. Add 1 to 2 water soluble packets per gallon of water
2. Allow water soluble bags to dissolve for 3-5 minutes or until bags have ruptured.
3. Agitate slurry for 10-15 minutes or until water soluble bags are completely in solution.
4. Transfer slurry to spray tank (begin spray tank agitation) filled 1/2 to 3/4 full with clean water.

When LIGHTNING is used in combination with another herbicide, refer to the respective label for rates, methods of application, proper timing, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. No label dosages should be exceeded.

Do not use crop oil concentrate or methylated seed oils when Banvel² or Buctril³ is used in tankmixes with LIGHTNING. Use of crop oil concentrate or methylated seed oils in tankmixes of LIGHTNING with 2,4-D, Marksman², atrazine, or Clarity² may result in crop injury if applied during periods of cold, wet weather or hot and/or humid weather. Under these environmental conditions the use of a nonionic surfactant is recommended.



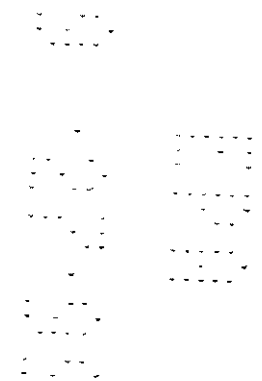
^{*}LIGHTNING is a Registered Trademark of American Cyanamid Company

^{*}CLEARFIELD is a Trademark of American Cyanamid Company

¹SUN-IT II is a Trademark of Agsco, Inc.

²Banvel, Clarity and Marksman are Trademarks of BASF Corporation

³Buctril is a Trademark of Rhone-Poulenc Company



483



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other:

OPP Identifier Number 259851

Application for Pesticide Section I

1. Company/Product Number 241-377
2. EPA Product Manager J. Tompkins
3. Proposed Classification None Restricted
4. Company/Product (Name) LIGHTNING herbicide
5. Name and Address of Applicant American Cyanamid Company
6. Expedited Review In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name

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Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Name: Laura L. Whatley, Title: Global Regulatory Manager, Telephone No.: 609-716-2283. Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. 2. Signature: Laura L. Whatley, 3. Title: Global Regulatory Manager, 4. Typed Name: Laura L. Whatley, 5. Date: September 24, 1999, 6. Date Application Received (Stamped)



Supplemental Labeling

EPA Reg. No. 241-377

NOTIFICATION 575
SEP 30 1999

FOR USE ONLY ON CLEARFIELD* CORN

DIRECTIONS FOR THE USE OF LIGHTNING HERBICIDE WITH CROP OILS AND METHYLATED SEED OILS AS ADJUVANTS FOR WEED CONTROL IN CLEARFIELD CORN

OBSERVE ALL PRECAUTIONARY STATEMENTS ON THE LIGHTNING LEAFLET LABEL BEFORE USING. SEE THE LIGHTNING LEAFLET LABEL FOR PRECAUTIONS, WORKER PROTECTION STANDARD REQUIREMENTS, APPLICATION INFORMATION, USES WITH OTHER PRODUCTS AND ROTATIONAL CROP RESTRICTIONS.

GENERAL INFORMATION

Apply LIGHTNING herbicide only on selected field corn hybrids (CLEARFIELD corn) warranted by the seed company to possess resistance/tolerance to direct application of LIGHTNING.

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 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.

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

Observe all cautions and limitations on this label and on the labels of products used in combination with LIGHTNING. Do not use LIGHTNING other than in accordance with the instructions set forth on this label. The use of LIGHTNING not consistent with this label may result in injury to crops.

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

USE OF ADJUVANTS WITH LIGHTNING

APPLICATIONS OF LIGHTNING REQUIRE THE ADDITION OF AN ADJUVANT AND A LIQUID FERTILIZER SOLUTION**.

I. ADJUVANTS

SURFACTANTS: Use a non-ionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 quart per 100 gallons. An organo-silicone surfactant may be used in place of a non-ionic surfactant.

OR

(see reverse side)

**LIGHTNING applications may be made with a non-ionic surfactant only (liquid fertilizer not required) in the Bootheel of Missouri, Tennessee, South Carolina, Louisiana, and Georgia.