

PM23

241-321

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 28 1991

Mr. Mark W. Galley  
American Cyanamid Company  
Agricultural Research Division  
P.O. Box 400  
Princeton, NJ 08540

Dear Mr. Galley:

Subject: Resubmission of Minor Label Amendment  
Scepter OT Herbicide  
EPA Registration Number 241-321  
Your Submission Date June 26, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following change:

- Due to a new EPA policy, part of the Environmental Hazards section has been changed. To comply, change the sentence "Do not apply to water or wetlands (swamps, bogs, or marshes)" to read "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

A stamped copy is enclosed for your records. Please submit three (3) copies of your final printed labeling incorporating this amendment and the change mentioned above.

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (H7505C,

Enclosure

CONCURRENCES

SYMBOL	H7505C						
SURNAME	Robbins						
DATE	8/26/91						

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**SCEPTER® O.T.®**  
herbicide  
FOR USE IN SOYBEANS

**ACTIVE INGREDIENTS:**

Sodium salt of imazaquin (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-quinolinecarboxylic acid)\*..... 5.61%

Sodium salt of acifluorfen: Sodium 5-(2-chloro-4-(trifluoromethyl)phenoxy-2-nitrobenzoate)..... 20.93%

**INERT INGREDIENTS** ..... 73.46%

**TOTAL** ..... 100.00%

\*Equivalent to 5.24%, 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-quinolinecarboxylic acid.

SCEPTER O.T. contains 2.5 pounds of active ingredients per gallon (0.5 pounds active ingredient of imazaquin and 2.0 pounds active ingredient of acifluorfen per gallon).

EPA Reg. No. 241-321

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN**

**DANGER! / PELIGRO!**

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

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**STATEMENT OF PRACTICAL TREATMENT**

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF SWALLOWED:** Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF INHALED:** Remove victim to fresh air.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

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

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See Next Page For Additional Precautionary Statements <sup>ACCEPTED</sup>  
With COMMENTS  
in EPA Letter Dated

AMERICAN CYANAMID COMPANY  
AGRICULTURAL DIVISION  
CROP PROTECTION CHEMICALS DEPARTMENT  
WAYNE, NJ 07470 ©1991

Net Contents:

®Registered Trademark of American Cyanamid Company

*Aug. 28, 1991*  
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 241-321  
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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
DANGER!**

**CAUSES IRREVERSIBLE EYE DAMAGE  
HARMFUL IF SWALLOWED,  
ABSORBED THROUGH  
THE SKIN, OR INHALED**

Avoid contact with eyes, skin, or clothing. Wear goggles or face shield. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

*Statement*

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. DO NOT apply directly to water or wetlands (swamps, bogs, marshes, or potholes). Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources.

**DISCLAIMER**

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. 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, or the use 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.

American Cyanamid's liability will be limited to a refund of the purchase price of the SCEPTER O.T. In no case shall American Cyanamid or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

American Cyanamid Company makes no other express or implied warranty, including any other express or implied warranty of FITNESS or MERCHANTABILITY.

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## USES WITH OTHER PRODUCTS (TANK MIXES)

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This product is not to be used in combination with any other product except as specifically recommended in writing by American Cyanamid Company (~~on page 7~~) and 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 a combination recommended by American Cyanamid Company (~~See directions for tank mixing and sequential treatments on page 7~~), 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 herbicide application.

Observe all cautions and limitations in this leaflet. The use of SCEPTER O.T. 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 32°F. SHAKE WELL BEFORE USING.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. DO NOT contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticides or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: 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

SCEPTER O.T. is a selective postemergence herbicide for the control of important broadleaf weeds in soybeans. For best results, apply SCEPTER O.T. to small actively growing weeds.

#### PRECAUTIONS:

DO NOT use on crops other than soybeans. Crops other than soybeans, such as cotton, corn and vegetables, may be injured by spray drift or other indirect contact with SCEPTER O.T.

To avoid injury to sensitive crops from spray drift, follow all use directions and precautions in SPRAYING INSTRUCTIONS on Page 5.

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To avoid injury to sensitive crops, spray equipment used for SCEPTER O.T. applications must be drained and thoroughly cleaned with water before being used to apply other products to these crops. See Page 7 for ROTATIONAL CROP RESTRICTIONS.

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

Use of SCEPTER O.T. 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 the use of this product and, therefore, rotational crop injury is always possible.

#### CULTIVATION

A timely cultivation may aid in the control of certain weeds or improve general weed control. After postemergence treatments, wait at least 10 days before cultivating.

#### BIOLOGICAL ACTIVITY

When SCEPTER O.T. is applied postemergence, it is absorbed through the foliage and roots (root uptake occurs if adequate moisture is received from rainfall or overhead irrigation). Once absorbed through the foliage SCEPTER O.T. acts in two ways:

1. As a contact herbicide producing rapid necrosis of the plant tissue.
2. And as a translocatable herbicide with movement to the growing points (roots and leaves) of the weed.

Susceptible weeds treated with SCEPTER O.T. stop growing and rapidly become chlorotic and necrotic; especially at the growing points, and either die or become non-competitive with the crop.

#### CROP RESPONSE

SCEPTER O.T. may cause some necrosis, cupping, speckling, and bronzing of soybean leaves. Plants quickly recover without any effect on soybean yields.

There must be an interval of 90 days between the last SCEPTER O.T. application and soybean harvest. DO NOT graze or feed treated soybean forage hay or straw to livestock.

#### MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. While agitating add the required amount of SCEPTER O.T. and as the last ingredient in the tank add the nonionic surfactant. An antifoaming agent may be added to the tank if needed. Maintain agitation while spraying to ensure a uniform spray mixture.

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## SPRAYING INSTRUCTIONS

### GROUND APPLICATIONS:

Uniformly apply with properly calibrated ground equipment in 10 to 30 gallons of water per acre and maintain a sprayer pressure of 30-40 PSI. Use higher gallonage for fields with dense vegetation. Use sprayers equipped for postemergence applications. Use nozzles that provide accurate and uniform application (tapered flat fan spray tips with 80-110 degree spray angles, and tip sizes should not exceed -06 to insure small droplet size of the spray solution; hollow cone nozzle tips may also be used).

A second application may be necessary if additional weeds emerge after treatment (total SCEPTER O.T. applied per season can not exceed 2 pints per acre).

DO NOT apply with ground equipment when wind velocity is greater than 10 mph or when spray may be carried by wind to sensitive crops.

Avoid overlaps when spraying.

### 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 applicators must adhere to the following SPECIAL USE DIRECTIONS AND PRECAUTIONS:

- Use diaphragm-type nozzles which produce cone or flat spray patterns.
- Use a maximum spray pressure of 40 PSI.
- 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.
- 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 SCEPTER O.T. in 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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POSTEMERGENCE APPLICATIONS

Apply SCEPTER O.T. as a postemergence treatment after crop emergence and in accordance with the weeds controlled, weed height, and rates of application information listed in the table below.

ADJUVANT USE

Use a nonionic surfactant at least 80% active at 1 quart per 100 gallons or 0.25% volume per volume (v:v) to enhance the wetting, contact, and uptake activity of SCEPTER O.T. on the plant foliage.

USE RECOMMENDATION

Apply SCEPTER O.T. at a rate of 1.0 pint per acre with a nonionic surfactant as discussed above.

NOTE: In the Northern Use Area as defined by the Use Area section of the label, apply SCEPTER O.T. prior to July 1.

WEEDS CONTROLLED		WEED HEIGHT (inches)	MAXIMUM LEAF STAGE
cocklebur	( <u>Xanthium strumarium</u> )	up to 6	6
morningglories, ivy leaf	( <u>Ipomoea hederacea</u> )	up to 2	3
entire leaf	( <u>Ipomoea hederacea</u> var. <u>intergriuscula</u> )	up to 2	3
tall	( <u>Ipomoea purpurea</u> )	up to 2	3
pitted	( <u>Ipomoea lacunosa</u> )	up to 2	3
palm leaf	( <u>Ipomoea wrightii</u> )	up to 2	3
small flower	( <u>Jacquemontia tamnifolia</u> )	up to 2	3
redroot pigweed	( <u>Amaranthus retroflexus</u> )	up to 6	6
smooth pigweed	( <u>Amaranthus hybridus</u> )	up to 4	4
tail waterhemp	( <u>Amaranthus tuberculatus</u> )	up to 4	4
hemp sesbania	( <u>Sesbania exaltata</u> )	up to 12	12
hophornbeam copperleaf	( <u>Acalypha ostryifolia</u> )	up to 2	2
Pennsylvania smartweed	( <u>Polygonum pennsylvanicum</u> )	up to 2	2
sunflower, common	( <u>Helianthus annuus</u> )	up to 4	4
volunteer corn	( <u>Zea mays</u> )	up to 8	4

SCEPTER O.T. can provide residual control of cocklebur and pigweed that may emerge after application. Application should be made to small soybeans so that more herbicide reaches the soil surface. The level of residual control will depend on weed density and canopy closure which affect the amount of SCEPTER O.T. reaching the soil surface and environmental conditions, such as rainfall, at the time of application.

To maximize weed control following a postemergence SCEPTER O.T. application, wait at least 10 days before cultivating. This timely cultivation will enhance residual weed control, especially under dry conditions.

Apply when weeds are actively growing. DO NOT apply SCEPTER O.T. when weeds have been subjected to stress conditions such as temperature and moisture extremes.

There must be an interval of at least 90 days between the last SCEPTER O.T. application and soybean harvest.

### SCEPTER O.T. PLUS 2,4-DB TANK MIXTURE

SCEPTER O.T. may be tank mixed with 2,4-DB at 2.0 lb/A for improved control of labeled morningglory species. Apply by ground to young actively growing weeds, and before annual morningglories reach 4 inches in height. Observe all use restrictions on 2,4-DB label.

### SEQUENTIAL TREATMENTS

Sequential treatments can be used in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas only.

1. A postemergence application of SCEPTER O.T. may be applied at 1 pint per acre following a soil application of SCEPTER, SCEPTER 70DG, SQUADRON, or TRI-SCEPT to control weeds listed in the WEEDS CONTROLLED section of this label. The total amount of SCEPTER O.T. applied can not exceed 2 pints per acre per year.
2. A second postemergence treatment of SCEPTER O.T. may be applied at 1 pint per acre to control labeled weeds that emerge after application. The total amount of SCEPTER O.T. applied can not exceed 2 pints per acre per year.

### ROTATIONAL CROP RESTRICTIONS

The following rotational crops may be planted after applying SCEPTER O.T. in soybeans:

1. Wheat may be planted in the fall, four months after a SCEPTER O.T. application in soybeans (See Northern Use Area Restrictions\*). Rice may be planted in the spring of the year following SCEPTER O.T. application:

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2. Eleven months after SCEPTER O.T. application:

Barley (See Northern Use Area Restrictions\*)  
Oats (See Northern Use Area Restrictions\*)  
Field corn (See Northern Use Area\* or Southern Use Area Restrictions\*\*)  
Edible beans  
Grain sorghum  
Peanuts  
Tobacco

3. Sugarbeets may be planted 26 months after last SCEPTER O.T. application in soybeans.

\*NORTHERN USE AREA RESTRICTIONS:

For the Northern Use Area as defined in the USE AREA section of this label; field corn, wheat, barley, or oats may be planted as a rotational crop in the fall or in the spring of the year following SCEPTER O.T. application ONLY if SCEPTER O.T. is applied as a postemergence application at 1 pint per acre and 10 inches of rainfall or irrigation has been received from the date of application through October of the year of application.

\*\*SOUTHERN USE AREA RESTRICTIONS:

For the Southern Use Area, as defined in the USE AREA section of this label; field corn may be planted in the spring of the year following a single SCEPTER O.T. application unless extreme drought conditions develop (less than 10 inches of rainfall or irrigation is received from the date of SCEPTER O.T. application through October of the same year). For eastern Oklahoma, Arkansas, the bootheel of Missouri, Tennessee, North Carolina and states south; field corn may be planted in the spring of the year following a single SCEPTER O.T. application unless extreme drought conditions develop (less than 10 inches of rainfall or irrigation is received within 6 months following the date of application).

NOTE: If SCEPTER O.T. is applied sequentially or if SCEPTER O.T. application follows a preplant incorporated or preemergence treatment of SCEPTER, SCEPTER 70DG, SQUADRON, or TRI-SCEPT the rainfall/irrigation requirement described above becomes 15 inches from the last SCEPTER O.T. application. Refer to the SEQUENTIAL TREATMENTS section of this label for states where SCEPTER O.T. may be applied sequentially or following an imazaquin soil application.

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

DO NOT plant other rotational crops prior to 18 months after last SCEPTER O.T. application.

Use of SCEPTER O.T. 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 the use of this product and, therefore, rotational crop injury is always possible.

Except where noted on a Supplemental Label or in the SEQUENTIAL TREATMENTS section of this label DO NOT apply products containing chlorimuron ethyl (e.g. Classic, Canopy, Gemini, Lorox Plus, Preview<sup>1</sup>, etc.), or imazaquin (e.g. SCEPTER, SQUADRON, TRI-SCEPT, etc.) the same year as SCEPTER O.T. DO NOT apply products containing imazethapyr (e.g. PURSUIT<sup>•</sup>, PURSUIT<sup>•</sup> PLUS, PASSPORT<sup>•</sup>, etc.) the same year as SCEPTER O.T. or injury to follow crops may occur.

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

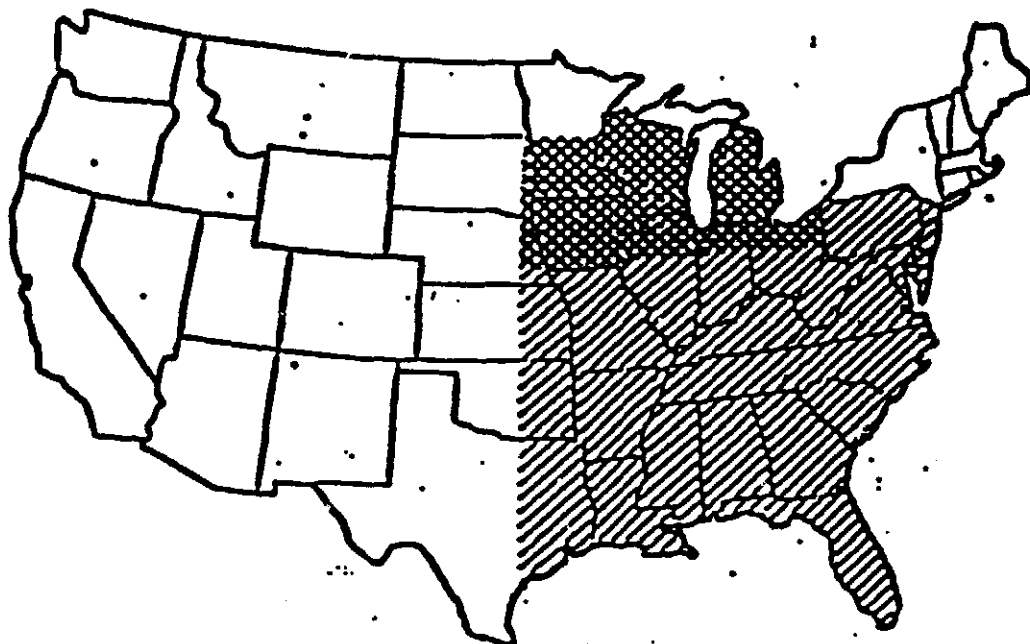
<sup>1</sup>Classic, Canopy, Gemini, Lorox Plus, and Preview are trademarks of E.I. duPont de Nemours and Company.

<sup>•</sup>Registered Trademarks of American Cyanamid Company.

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USE AREA

SCEPTER O.T. can be applied only in the states or parts shaded in the following map:



XXXXX - Northern Use Area (includes: Nebraska, east of U.S. 81, north of U.S. 34; South Dakota, east of U.S. 81; Illinois, north of S. R. 116 for area west of Peoria, north of U.S. 24 for area east of Peoria; Indiana, north of U.S. 24 for area west of Huntington, north of U.S. 224 for area east of Huntington; Ohio, north of U.S. 224; and all other states or portions of states shaded in the Northern use area map).

///// - Southern Use Area (includes: Kansas, east of U.S. 81 and Cloud, Ellsworth, Harvey, Jewell, Lincoln, McPherson, Mitchell, Ottawa, Republic, Saline, Sedgewick and Sumner counties; southern portions of Illinois, Indiana, Ohio, and eastern Nebraska not covered by Northern Use Area description; and all other states or portions of states shaded in the Southern Use Area map).

NOTE: See the ROTATIONAL CROP RESTRICTIONS section for recommendations applying to the Northern vs. Southern Use Areas.

NOTE: See the SEQUENTIAL TREATMENTS section for use area restrictions regarding additional SCEPTER O.T. applications.