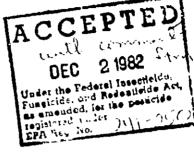
AVENGE 2AS WILD OAT HERBICIDE FOR USE IN BARLEY AND WHEAT

> EPA Reg. No. 241-250 Label Revision D-47 November 1982



1

Page 1

- 1. Change of name from Avenge Wild Oat Herbicide to AVENGE 2AS Wild Oat Herbicide
- 2. Change of label number in lower right corner from D-46 to D-47

Page 2

3. DIRECTIONS FOR USE: WHERE TO USE AVENGE Section: The additional spring seeded wheat varieties have been added: Coteau, Solar, Walera, and Pro-Brand 711. The sentence, "DO NOT APPLY to any other varieties of hard red spring wheat." has replaced the statement concerning which varieties may be injured by AVENGE.

4. A new tank mix for AVENCE plus Glean has been added. A corresponding footnote 10/ has been added.

ACCE

WILD OAT HERBICID

FOR USE IN BARLEY & WI

1982
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Inacche

(1 gallon contains 2 lbs. of difenzoquat cation)

EPA Reg. No. 241-250-AA

EPA Est. No.

(12 pt. type)

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KEEP OUT OF REACH OF CHILDREN

(18 pt. type)

DANGER!

FIRST AID

In case of contact, immediately flush eyes with plenty of water. Call a physician.

If swallowed - drink one or two glasses of water and induce vomiting by touching back of throat with finzer. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

See Side Panel for Additional Precautionary Statements

PELIGRO!

(AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.)

(ENGLIGH TRANSLATION)

DANGER!

(TO THE USER: If you cannot read English, do not use this product wrill the label has been fully explained to you.)

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

Manufactured by
AMERICAN CYANAMID COMPANY
AGRICULTURAL DIVISION
Wayne, NJ 07470

Net Contents: 30 gallons 113.35 liters

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CENTRAL INTERPATION

AVENGE is a selective herbicide for the postemergence control of wild outs in barley and wheat. See the section DIRECTIONS FOR USE for varietal restrictions.

If broadleaf weeds must also be controlled in these crops, AVENGE may be tank-mixed with MCPA amine or ester, bromoxynil, MCPA plus bromoxynil, or 2,4-D amine or ester. AVENGE alone or in combination can be applied post-emergence by ground equipment or aircraft.

Maximum control of wild oats in barley and wheat with AVENGE alone or in combination is obtained when temperature, moisture, fertility and cultural practices provide favorable conditions for plant growth. When applied under poor conditions for plant growth such as cold/wet or hot/dry weather or low soil fertility, AVENGE can produce yellowing or slight tip burn of barley or wheat. However, recovery is rapid when good growth conditions return. A slight reduction of yield may result under conditions described above.

Observe all cautions and limitations on this label and the labels of products used in tank mixtures with AVENGE. The use of AVENGE not consistent with this label can result in injury to crops, animals or persons. Keep containers closed to avoid spills and contamination.

EQUIPMENT APPLICATION INSTRUCTIONS

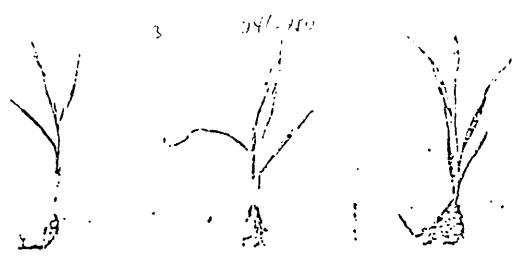
The spray equipment must be clean and properly calibrated before treatments are applied. For best results, use flat fan nozzles, at pressures of 20 to 40 ps; to achieve uniform spray distribution and minimize drift. DO NOT use flood jet nozzles. Keep the by-pass line on or near the bottom of the tank to minimize foaming. In ground applications, check nozzles for even distribution of spray droplets. In aerial applications, it is recommended that a flagman be located at each end of the field, or an automatic mechanical flagging unit be attached to the aircraft to ensure uniform perial application and to avoid overlapping and possible crop injury.

DIRECTIONS FOR USE

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

WHERE TO USE AVENUE: AVENUE alone or in combination can be applied to all varieties of barley and fall-seeded wheat varieties except Mexican durums. AVENUE can be applied to all soft white spring-seeded varieties, all-springs-seeded durum varieties except Laketa. Wascona, Vic and Edmore; the springs-seeded hard red varieties Butte, Era, Fortuna, Kitt, Olaf, Coteau, Sélär, Walera, and Pro-Brand 711. DO NOT APPLY to any other varieties of hard red spring wheat.

WHEN TO USE AVENGE: AVENGE or AVENGE tank-mix combinations are to be applied when the majority of wild out plants are in the 3- to 5- true leaf stage of growth. The timing of AVENGE application to wild outs frequently coincides with barley in the 2- to 7- leaf stage, spring-seeded wheat in the 5- to 6- leaf stage, and fall-seeded wheat in the 4-leaf to tillered stage of growth. To achieve maximum control, the growth stage of wild outs in each field to be treated should be examined frequently to determine the 3- to 5-leaf stage for proper timing of AVENGE application. Density of wild outs per square foot should also be determined to select the correct AVENGE application rate.



3-true leaf stage

4-true leaf stage

5-true leaf stage

DO NOT apply AVENCE if rain is predicted within 6 hours. DO NOT spray AVENCE when freezing temperatures are forecast or when plants are wet with dew or rain.

AVENGE Rate Recommendation Table

| Wild Oat Population | Wild Oat Density Plants Per Square Foot | AVENGE ¹ / Race Per Acre |
|---------------------|---|--|
| Low | 1-10 | 2 1/2 pints |
| Moderate | 11-25 | 3 pints |
| High | more than 25 | 4 pints |

NOTE: For spray volumes in excess of 10 gallons of spray per acre (gpa), the addition of surfactant is required: Use Triton2/ X-190 or Ortho X-779 Spreader3/ or Surfonic*/ N-95 or Tergitol5/ NPX at 0.6 fluid ounce for each gallon of spray in excess of 10 gpa. Example: For a 15 gpa spray add 3 fluid ounces of surfactant (0.6 ounce for each gallon of water over 10 gpa) to each 15 gallons of water. Use only recommended surfactants.

When conditions prevent vigorous growth of wild oats, apply AVENGE at the rate of 4 pints per acre for all levels of wild oat infestation. CC NOT. apply AVENGE alone or tank-mix under severe conditions for plant growth such as drought, extreme temperature fluctuation, low soil fertility and plant disease.

2/Triton is a registered trademark of Rohm and Haas Company.

3/ Ortho X-770 Spreader is a registered trademark of Chevron Chemical Company.

4/Surfonic is a registered trademark of Jefferson Chemical Company, Inc.

5/ Tergital is a registered trademark of Union Carbide Corporation.

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- 1. Fill tank one-half to three-quarters full with clean water and start agitation.
- 2. When using AVENGE alone, add AVENGE to the partially filled tank while agitating. When AVENGE is thoroughly mixed, fill remainder of tank with water while agitating.
- 3. Allow mixture to agitate and recycle for at least five minutes before spraying.
- 4. Agitation must be continued until spraying is completed.

HOW TO MIN AVENCE PLUS BROADLEAF HERBICIDES

- 1. Fill tank one-half to three-quarters full with clean water and start agitation.
- 2. When using AVENGE with a broadleaf herbicide, add the broadleaf herbicide first to the partially filled tank while agitating.
- 3. When the broadleaf herbicide is thoroughly mixed, add the AVENGE to the tank, then complete filling the tank with water while agitating.
- 4. Allow minture to agitate and recycle for at least five minutes before spraying.
- 5. Agitation must be continued until spraying is completed.

HOW TO USE AVENUE ALONE

If wild onts are growing vigorously, select the proper application rate from the AVENGE Recommendation Table that corresponds to the population of wild out plants per square foot in the field to be treated.

Apply AVENUE in 5 to 20*gallons of water per acre by ground equipment or 3 to 10 gallons of water per acre by aircraft. DO NOT let spray drift outo 1 adjacent cross.

HOW TO USE AVENUE PLUS ERCADLEAF HEREICIDES

Select the proper AVENGE application rate as described in the AVENGE Recommendation Table. *Do not apply AVENGE tank mix combinations under strefs conditions. In order to assure optimum broadleaf weed control follow label recommendations of the broadleaf herbicides used with AVENGE. Tollow the Mixing Instructions and use the herbicide as follows:

AVENUE PLUS MCPA 57 : Use only amine or ester formulations of MCPA at the rate of 0.25 to 1.0 lb acid equivalent per acre. Apply in 5 to 20° gallons per acre by ground equipment or 5 to 10 gallons per acre by aircraft.

*When applying more than 10 gallens of spray per acre, fellow instructions relating to addition of surractant as described under the AVENGE Recommendation Table.

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AVENUE FIELD BL MODANIL': Use branchymil at the rate of 0.372 to 0.5 lb active ingredient per acre. Apply in 10 to 20 gallons per acre by ground equipment or 5 to 10 gallons per acre by aircraft.

AVENUE PLUS MCPA PLUS BROMONTHIL⁸: Use MCPA at the rate of 0.25 to 0.5 lb. acid equivalent per acre plus bromonymil at 0.25 to 0.5 lb. active ingredient per acre. Apply in 10 to 20* gallons per acre by ground equipment or 5 to 10 gallons per acre by aircraft.

AVENCE PLUS 2,4-D⁹: Use only amine or ester formulations of 2,4-D at the rate of 0.25 to 0.75 lb. acid equivalent per acre. Apply in 5 to 20*gallons of spray per acre by ground equipment and 5 to 10 gallons per acre by aircraft. Apply tank-mix after crops are 6 inches tall, after the crops are well tillered, or after the blocm stage. -DO NOT apply in seedling stage or early boot to dough stage.

AVENGE PLUS GLEAN 10/: Use Glean at the rate of 1/6 to 1/2 ounce of the 75% dry flowable formulation per acre. Apply in 5 to 20 gallons of spray per acre by ground equipment and 3 to 10 gallons per acre by aircraft.

- 6/The amine and ester formulations of MCPA are sold under various brand names. Consult manufacturer's label recommendation before use.
- 7/ Bromoxymil is sold under various brand names. Consult manufacturar's label recommendation before use.
- There are several brand names for MCPA + bromoxymil. Consult manufacturer's label recommendation before use.
- 9/ The amine onlester formulations of 2,4-D are sold under various bound names. Consult manufacturer's label recommendation before use.
- 10/Glean is a trademark of E.T. du Pont de Nemours and Company, Inc.

NOTE: DO NOT MAKE MORE THAN ONE APPLICATION OF AVENGE PER GROWING SEASON.

DO NOT GRADE TREATED FIELDS OR CUT TREATED FORAGE FOR SILAGE OR HAY
BARLEY OR WHEAT CAN BE REPLANTED IF LOSS OF CROP OCCURS.

BARLEY AND WHEAT GRAIN AND STRAW FROM TREATED FIELDS CAN BE FLD TO
LIVESTOCK.

ROTATION TO OTHER CROPS CAN BE MADE THE FOLLOWING YEAR.

DO NOT STORE BELOW 40°F (5°C)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

DANGER!

HARMFUL IF SWAILONED OR ABSORDED THROUGH SKIN CAUSES EYE DAMAGE

Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly after handling.

ENVIRONMENTAL HADARDS

Do not apply directly to lakes, streams and pends. Do not apply when weather conditions favor run-off and/or drift from target area. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

AVENGE will crystallize at 40°F(5°C). At place of storage, examine for crystallization. If crystals occur from prolonged storage at temperatures 40°F(5°C) or below, place container on side and warm to room temperature for several hours. If crystals remain upon emptying container, tap bottom of the container to loosen crystals. Add water and swirl to dissolve before using.

PROHIBITIONS

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

PESTICIDE DISPOSAL

Pesticide, spray mixture or rinsate that cannot be used according to label instructions or chemically reprocessed must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL

Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill or by incineration if permitted by State and Local Authorities.

Consult Federal. State or Local disposal authorities for approved niternat!" procedures.

The lanel instruction for the ore of the 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 preduct. 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 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.

Any damages arising from a breach of this warranty shall be limited to direct damages and shill not include consequential connercial damages such as loss of profits or values or any other special or indirect damages.

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

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Ms. Lynne N. Gragory American Cyanamid Company Agricultural Division P.O. Box 400 Princeton, NJ 08540

DEC 2 1982

Dear Ms. Gregory:

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Subject: New Brand Names
Amendments: Label Revision and
Tank Mix with Glean
Avenge 2AS Wild Oat Herbicide
EPA Registration No. 241-250
Avenge Wild Oat Herbicide
EPA Registration No. 241-266
Your Submissions of November 23, 1982

The new brand names for the above-listed products are acceptable, and have been included in our files for these products.

The amendments referred to above, submitted in connection with registration under FIFRA are acceptable, provided that you:

- 1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Note that you did not include "Glean" in the list of tank mixes under "General Information."
 - b. After "recommended surfactants" add "Cleared for application to growing crops" or specify "These recommended surfactants."
 - c. To the Tank Mix directions for "Glean," add the following statements:

Prior to use of "Glean," determine soil ph by laboratory analysis using a 1:1 soil: water suspension. Do not use "Glean" on soils with ph greater than 7.5. Do not exceed 1/2 oz./acre/year on soils ph 6.5 or lower, or 1/3 oz./acre/year on soils ph 6.6 to 7.5. Follow the most restrictive precautions, directions, and recropping/rotation limitations that appear on both products' labels.

- 2. Aubmit five (5) copies of your final printed labeling before you release the product for shipment.
- A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

Richard F. Hountfort (X) Product Hanager (23) Punyicide-Werbicide Brauch Registration Division (76-767)

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RD:NOUMTFORT:DCR-04155:WANG-1374C:pjb:Raven:479-2013:11/29/82