

AVENGE S

wild oat herbicide

ACCEPTED
JAN 26 1981
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, this pesticide
is registered under the
EPA No.

FOR USE IN BARLEY AND WHEAT

Active Ingredients:

Difenzoquat methyl sulfate (1,2-dimethyl-3, 5-diphenyl-1H-pyrazolium methyl sulfate)	62.5
Inert Ingredients	37.5

(1 pound of AVENGE S contains 6.88 oz. difenzoquat cation)

EPA Reg. No. 241-262

EPA Est. No. 241-CT-1



**KEEP OUT OF REACH OF CHILDREN
DANGER!**

FIRST AID

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

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

See Back Panel For Additional Precautionary Statements

PELIGRO

AL USUARIO - Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada completamente.

AL USUARIO - If you cannot read English, do not use this product until the label has been explained to you.

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

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

Manufactured By
AMERICAN CYANAMID COMPANY
AGRICULTURAL DIVISION, WAYNE, N.J. 07470

Net Contents: 13.6 lbs.
6.17 KG

22950-02

D40

GENERAL INFORMATION

AVENGE is a selective herbicide for the control of weeds in corn, sorghum, soybeans, cotton, and wheat. It is available in two formulations: AVENGE 5 and AVENGE 2.5. AVENGE 5 is a suspension concentrate and AVENGE 2.5 is a granular formulation. AVENGE is effective against a wide range of weeds, including annual grasses, broadleaf weeds, and sedges. It is registered for use in corn, sorghum, soybeans, cotton, and wheat in the United States, Mexico, and Canada. AVENGE is not effective against perennial grasses and woody plants.

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Maximum rate of application for AVENGE 5 is 1.0 ounce per acre for corn, sorghum, soybeans, and cotton. For wheat, the maximum rate is 0.5 ounce per acre. AVENGE 2.5 is applied at a rate of 1.0 ounce per acre for corn, sorghum, soybeans, and cotton. For wheat, the maximum rate is 0.5 ounce per acre. AVENGE is applied as a pre-emergent or early post-emergent herbicide.

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EQUIPMENT APPLICATION INSTRUCTIONS

The spray equipment must be calibrated to deliver the correct amount of AVENGE per acre. The spray equipment should be calibrated using a standard procedure. The spray equipment should be calibrated to deliver 100 gallons of spray per acre. AVENGE should be applied at a rate of 1.0 ounce per acre for corn, sorghum, soybeans, and cotton. For wheat, the maximum rate is 0.5 ounce per acre. AVENGE is applied as a pre-emergent or early post-emergent herbicide.

DIRECTIONS FOR USE

WHERE TO USE AVENGE: AVENGE 5 and AVENGE 2.5 are used for the control of weeds in corn, sorghum, soybeans, cotton, and wheat. AVENGE is not effective against perennial grasses and woody plants. AVENGE is registered for use in corn, sorghum, soybeans, cotton, and wheat in the United States, Mexico, and Canada. AVENGE is not effective against perennial grasses and woody plants.

WHEN TO USE AVENGE

AVENGE or AVENGE 2.5 should be applied when the weeds are in the early stages of growth. AVENGE is most effective when applied to weeds that are 1 to 4 inches tall. AVENGE is applied as a pre-emergent or early post-emergent herbicide. AVENGE is registered for use in corn, sorghum, soybeans, cotton, and wheat in the United States, Mexico, and Canada. AVENGE is not effective against perennial grasses and woody plants.

MIXING INSTRUCTIONS

HOW TO MIX AVENGE ALONE

1. Fill tank one-third full with clean water and start agitation.
2. When using AVENGE 5, add AVENGE 5 to the spray mixture at a rate of 1.0 ounce per acre.
3. Add water to the spray mixture until the tank is three-quarters full.
4. Agitation must be continued until spraying is completed.

HOW TO MIX AVENGE PLUS BROADLEAF HERBICIDES

1. Fill tank one-third full with clean water and start agitation.
2. When using AVENGE 5 with a broadleaf herbicide, add AVENGE 5 to the spray mixture at a rate of 1.0 ounce per acre.
3. When the broadleaf herbicide is added, add the AVENGE 5 to the spray mixture.
4. Add water to the spray mixture until the tank is three-quarters full.
5. Agitation must be continued until spraying is completed.

Wind Speed (mph)	AVENGE 5 (oz/acre)	AVENGE 2.5 (oz/acre)
Low (1-10)	1.0	1.0
Moderate (11-25)	1.0	1.0
High (more than 25)	1.0	1.0

NOTE: For spray volume, see the spray application instructions. AVENGE 5 should be applied at a rate of 1.0 ounce per acre. AVENGE 2.5 should be applied at a rate of 1.0 ounce per acre. AVENGE is applied as a pre-emergent or early post-emergent herbicide.

1. Under stress conditions of plant growth, apply AVENGE 5 at the rate of 0.5 ounce per acre.
2. Trade names are registered trademarks of their respective owners.
3. X-77 is a registered trademark of Kocide Laboratories, Ltd., of Ontario, Canada.
4. Surflan is a registered trademark of Dorrance Chemicals, Inc.
5. Tergitol is a registered trademark of Union Carbide Corporation.

HOW TO USE AVENGE ALONE

AVENGE 5 should be applied at a rate of 1.0 ounce per acre for corn, sorghum, soybeans, and cotton. For wheat, the maximum rate is 0.5 ounce per acre. AVENGE 2.5 is applied at a rate of 1.0 ounce per acre for corn, sorghum, soybeans, and cotton. For wheat, the maximum rate is 0.5 ounce per acre. AVENGE is applied as a pre-emergent or early post-emergent herbicide.

HOW TO USE AVENGE PLUS BROADLEAF HERBICIDES

Select the proper AVENGE 5 formulation for use with the broadleaf herbicide. AVENGE 5 should be applied at a rate of 1.0 ounce per acre. The broadleaf herbicide should be applied at a rate of 1.0 ounce per acre. AVENGE 5 and the broadleaf herbicide should be applied together. AVENGE 5 is applied as a pre-emergent or early post-emergent herbicide. The broadleaf herbicide is applied as a post-emergent herbicide. AVENGE 5 is registered for use in corn, sorghum, soybeans, cotton, and wheat in the United States, Mexico, and Canada. AVENGE 5 is not effective against perennial grasses and woody plants.

1. AVENGE 5 should be applied at a rate of 1.0 ounce per acre.
2. AVENGE 5 should be applied at a rate of 1.0 ounce per acre.
3. AVENGE 5 should be applied at a rate of 1.0 ounce per acre.
4. AVENGE 5 should be applied at a rate of 1.0 ounce per acre.
5. AVENGE 5 should be applied at a rate of 1.0 ounce per acre.

**AVENGE 5
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
DANGER!**

ENVIRONMENTAL HAZARDS

**STORAGE AND DISPOSAL
PROHIBITIONS**

PESTICIDE DISPOSAL

CONTAINER DISPOSAL

GENERAL

DIRECTIONS FOR USE

Use only in accordance with the directions stated on the label.

WHERE TO USE AVENGE: AVENGE and AVENGE PLUS are for use on the following crops:

- 1. Barley, 2. Fall seeded wheat, 3. Winter wheat, 4. Spring wheat, 5. Spring wheat, 6. Spring wheat, 7. Spring wheat, 8. Spring wheat, 9. Spring wheat, 10. Spring wheat, 11. Spring wheat, 12. Spring wheat, 13. Spring wheat, 14. Spring wheat, 15. Spring wheat, 16. Spring wheat, 17. Spring wheat, 18. Spring wheat, 19. Spring wheat, 20. Spring wheat, 21. Spring wheat, 22. Spring wheat, 23. Spring wheat, 24. Spring wheat, 25. Spring wheat, 26. Spring wheat, 27. Spring wheat, 28. Spring wheat, 29. Spring wheat, 30. Spring wheat, 31. Spring wheat, 32. Spring wheat, 33. Spring wheat, 34. Spring wheat, 35. Spring wheat, 36. Spring wheat, 37. Spring wheat, 38. Spring wheat, 39. Spring wheat, 40. Spring wheat, 41. Spring wheat, 42. Spring wheat, 43. Spring wheat, 44. Spring wheat, 45. Spring wheat, 46. Spring wheat, 47. Spring wheat, 48. Spring wheat, 49. Spring wheat, 50. Spring wheat, 51. Spring wheat, 52. Spring wheat, 53. Spring wheat, 54. Spring wheat, 55. Spring wheat, 56. Spring wheat, 57. Spring wheat, 58. Spring wheat, 59. Spring wheat, 60. Spring wheat, 61. Spring wheat, 62. Spring wheat, 63. Spring wheat, 64. Spring wheat, 65. Spring wheat, 66. Spring wheat, 67. Spring wheat, 68. Spring wheat, 69. Spring wheat, 70. Spring wheat, 71. Spring wheat, 72. Spring wheat, 73. Spring wheat, 74. Spring wheat, 75. Spring wheat, 76. Spring wheat, 77. Spring wheat, 78. Spring wheat, 79. Spring wheat, 80. Spring wheat, 81. Spring wheat, 82. Spring wheat, 83. Spring wheat, 84. Spring wheat, 85. Spring wheat, 86. Spring wheat, 87. Spring wheat, 88. Spring wheat, 89. Spring wheat, 90. Spring wheat, 91. Spring wheat, 92. Spring wheat, 93. Spring wheat, 94. Spring wheat, 95. Spring wheat, 96. Spring wheat, 97. Spring wheat, 98. Spring wheat, 99. Spring wheat, 100. Spring wheat.

WHEN TO USE AVENGE

AVENGE and AVENGE PLUS are for use on the following crops: (1) Barley, (2) Fall seeded wheat, (3) Winter wheat, (4) Spring wheat, (5) Spring wheat, (6) Spring wheat, (7) Spring wheat, (8) Spring wheat, (9) Spring wheat, (10) Spring wheat, (11) Spring wheat, (12) Spring wheat, (13) Spring wheat, (14) Spring wheat, (15) Spring wheat, (16) Spring wheat, (17) Spring wheat, (18) Spring wheat, (19) Spring wheat, (20) Spring wheat, (21) Spring wheat, (22) Spring wheat, (23) Spring wheat, (24) Spring wheat, (25) Spring wheat, (26) Spring wheat, (27) Spring wheat, (28) Spring wheat, (29) Spring wheat, (30) Spring wheat, (31) Spring wheat, (32) Spring wheat, (33) Spring wheat, (34) Spring wheat, (35) Spring wheat, (36) Spring wheat, (37) Spring wheat, (38) Spring wheat, (39) Spring wheat, (40) Spring wheat, (41) Spring wheat, (42) Spring wheat, (43) Spring wheat, (44) Spring wheat, (45) Spring wheat, (46) Spring wheat, (47) Spring wheat, (48) Spring wheat, (49) Spring wheat, (50) Spring wheat, (51) Spring wheat, (52) Spring wheat, (53) Spring wheat, (54) Spring wheat, (55) Spring wheat, (56) Spring wheat, (57) Spring wheat, (58) Spring wheat, (59) Spring wheat, (60) Spring wheat, (61) Spring wheat, (62) Spring wheat, (63) Spring wheat, (64) Spring wheat, (65) Spring wheat, (66) Spring wheat, (67) Spring wheat, (68) Spring wheat, (69) Spring wheat, (70) Spring wheat, (71) Spring wheat, (72) Spring wheat, (73) Spring wheat, (74) Spring wheat, (75) Spring wheat, (76) Spring wheat, (77) Spring wheat, (78) Spring wheat, (79) Spring wheat, (80) Spring wheat, (81) Spring wheat, (82) Spring wheat, (83) Spring wheat, (84) Spring wheat, (85) Spring wheat, (86) Spring wheat, (87) Spring wheat, (88) Spring wheat, (89) Spring wheat, (90) Spring wheat, (91) Spring wheat, (92) Spring wheat, (93) Spring wheat, (94) Spring wheat, (95) Spring wheat, (96) Spring wheat, (97) Spring wheat, (98) Spring wheat, (99) Spring wheat, (100) Spring wheat.

MIXING INSTRUCTIONS

HOW TO MIX AVENGE ALONE

- 1. Fill the sprayer with clean water.
- 2. Add the amount of AVENGE indicated on the label to the water.
- 3. Add the amount of Tergitol indicated on the label to the water.
- 4. Add the amount of Surfontic indicated on the label to the water.
- 5. Agitate the mixture until spraying is complete.

HOW TO MIX AVENGE PLUS BROADLEAF HERBICIDES

- 1. Fill the sprayer with clean water.
- 2. Add the amount of AVENGE indicated on the label to the water.
- 3. Add the amount of broadleaf herbicide indicated on the label to the water.
- 4. Add the amount of Tergitol indicated on the label to the water.
- 5. Add the amount of Surfontic indicated on the label to the water.
- 6. Agitate the mixture until spraying is complete.

Water Requirement (gallons per acre)	AVENGE ¹ (ounces per acre)	AVENGE PLUS (ounces per acre)
Low (11-10)	1.5	2.5
Moderate (11-25)	1.75	3.0
High (more than 25)	2.25	3.75

NOTE: For spray volume, always use 100 gallons of spray per acre. The amount of water to be added to the spray should be 10 gallons per acre for a sprayer with a 4-N Surfontic⁵ and 0.6 fluid ounce for each gallon of spray mix. Example: For a sprayer with a 4-N Surfontic⁵ and 0.6 fluid ounce for each gallon of water over 10 gallons to each 15 gallons of water.

- ¹Under stress conditions of plant growth, apply AVENGE alone at the rate of 2.25 plus 0.6 fluid ounce of Surfontic⁵ and 0.6 fluid ounce of water per acre.
- ²Tergitol is a registered trademark of Rohm and Haas Company.
- ³X-77 is a registered trademark of Kao Laboratories, Chemicon Chemical Company.
- ⁴Surfontic is a registered trademark of Jefferson Chemical Company.
- ⁵Tergitol is a registered trademark of Union Carbide Corporation.

HOW TO USE AVENGE ALONE

If vegetation is growing profusely, select the proper application rate of AVENGE for use on the vegetation to be treated. Apply AVENGE at 1.5 to 2.25 gallons of water per acre, depending on the water requirement of the area.

HOW TO USE AVENGE PLUS BROADLEAF HERBICIDES

Select the proper AVENGE application rate for use on the vegetation to be treated. Apply AVENGE PLUS at the optimum broadleaf herbicide rate. Use the recommended amount of broadleaf herbicide with AVENGE PLUS. AVENGE PLUS MCPA⁶ Use MCPA⁶ at 1.0 lb. per acre. AVENGE PLUS Bromoxynil⁷ Use Bromoxynil⁷ at 0.5 lb. per acre. AVENGE PLUS MCPA Plus Bromoxynil⁷ Use MCPA⁶ at 1.0 lb. per acre and Bromoxynil⁷ at 0.5 lb. per acre. AVENGE PLUS 2,4-D⁸ Use 2,4-D⁸ at 1.0 lb. per acre. AVENGE PLUS MCPA Plus 2,4-D⁸ Use MCPA⁶ at 1.0 lb. per acre and 2,4-D⁸ at 1.0 lb. per acre. AVENGE PLUS Bromoxynil Plus 2,4-D⁸ Use Bromoxynil⁷ at 0.5 lb. per acre and 2,4-D⁸ at 1.0 lb. per acre. AVENGE PLUS MCPA Plus Bromoxynil Plus 2,4-D⁸ Use MCPA⁶ at 1.0 lb. per acre, Bromoxynil⁷ at 0.5 lb. per acre, and 2,4-D⁸ at 1.0 lb. per acre. ⁶The name and ester form of MCPA are trademarks of Rhine-Polen Chemical Company. ⁷There are several brand names for Bromoxynil. The name and ester form of Bromoxynil are trademarks of Rhine-Polen Chemical Company. ⁸There are several brand names for 2,4-D. The name and ester form of 2,4-D are trademarks of Rhine-Polen Chemical Company.

NOTE: DO NOT APPLY AVENGE IF RAIN IS EXPECTED WITHIN 6 HOURS. DO NOT APPLY AVENGE WHEN PLANTS ARE WET WITH DRAINAGE. DO NOT MAKE MORE THAN ONE APPLICATION OF AVENGE PER SEASON. DO NOT GRATE WHEAT HEADS OR CHOP WHEAT HEADS INTO ROTARY OR OTHER CRUSHERS. WHEAT HEADS SHOULD BE GRATED OR CHOPPED AT A DISTANCE FROM WHEAT HEADS.

AVENGE S
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
DANGER!

Causes eye irritation. Causes skin irritation. Causes respiratory irritation. Causes severe skin burns and eye damage. Causes serious eye damage. Causes serious eye irritation.

ENVIRONMENTAL HAZARDS

Causes harm to aquatic life. Causes harm to birds.

STORAGE AND DISPOSAL
PROHIBITIONS

PESTICIDE DISPOSAL

CONTAINER DISPOSAL

GENERAL

DISCLAIMER