

97.01.17

A V E N G E* 280-C

DIFENZOQUAT

LIQUID POSTEMERGENCE

WILD OAT HERBICIDE

For control of wild oats in

SPRING WHEAT(+), BARLEY, TRITICALE(++), WINTER WHEAT(++),
FALL RYE(++), CANARY GRASS and UNDERSEEDED FORAGES(++)

(+)(Neepawa, Katepwa, Columbus, Selkirk, Chester, Canuck,
Benito, Fielder, Leader, Glenlea, Conway,
Kenyon, Lacer, Oslo,
Genesis, and HY320 varieties only)

(++)(For specific varieties see attached pamphlet)

AGRICULTURAL

GUARANTEE: difenzoquat...280g/L
(PRESENT AS METHYL SULFATE)

REGISTRATION No 20558 PEST CONTROL PRODUCTS ACT

DANGER POISON CORROSIVE TO EYES

IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL COLLECT DAY OR NIGHT
416-356-8310

READ THE LABEL AND ATTACHED PAMPHLET BEFORE USING

Contents: 10.1 Litres

CYANAMID CANADA INC.
Division of Wyeth-Ayerst Canada, Inc.
Markham, Ontario,
L3R 6E6

22905-12

*AVENGE is a registered trademark

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

UNDILUTED PRODUCT MAY BE FATAL IF SWALLOWED OR INHALED

HARMFUL IF ABSORBED THROUGH THE SKIN.

CORROSIVE, CONCENTRATE CAUSES IRREVERSIBLE EYE IRRITATION.

Avoid contact with eyes, skin and clothing.

Wear goggles or face shield and rubber gloves when handling and a respirator with appropriate filter when spraying.

When using do not eat, drink or smoke. Wash thoroughly with soap and water after handling.

Wash all protective clothing separately in detergent and hot water before reuse.

Clean all protective equipment at the end of each work day.

Start each day with freshly laundered clothes and clean equipment.

FIRST AID:

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention or contact a poison control centre.

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 or contact a poison control centre.

If on skin: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing

before re-use. Get medical attention or contact a poison control centre.

If inhaled: If symptoms of poisoning are experienced get medical attention immediately or contact a poison control centre.

TOXICOLOGICAL INFORMATION: Probable mucosal damage may contraindicate the use of gastric lavage.

Symptoms of poisoning - lethargy, diuresis, diarrhea and prostration.

DISPOSAL INSTRUCTIONS:

1. Triple rinse the emptied container and add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the Provincial Regulatory Agency or the manufacturer.

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

PAMPHLET

A V E N G E* 280-C

DIFENZOQUAT LIQUID

POSTEMERGENCE

WILD OAT HERBICIDE

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FALL RYE(++), CANARY GRASS and UNDERSEEDED FORAGES(++)

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READ THE LABEL AND THIS PAMPHLET BEFORE USING

Contents: 10.1 Litres

CYANAMID CROP PROTECTION
Division of Wyeth-Ayerst Canada, Inc.
Markham, Ontario,
L3R 6E6

22905-12

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CORROSIVE, CONCENTRATE CAUSES IRREVERSIBLE EYE IRRITATION.

Avoid contact with eyes, skin and clothing.

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DIRECTIONS FOR USE:

STAGE OF WILD OAT GROWTH:

AVENGE herbicide should give successful wild oat control during an extended period from the 3 - 4 leaf stage to the 5th leaf stage.

Early Treatments: AVENGE herbicide should be applied when a majority of the wild oats are in the 3 - 4 leaf stage to minimize early wild oat competition and provide maximum yield increases. AVENGE herbicide will not control wild oat plants that are in the 1 - 2 leaf stage.

Later Treatments: AVENGE herbicide, applied at the 4 - 5 leaf stage will give very good control but yield increases may be reduced.

NOTE: Maximum wild oat control and yield increase of crop are obtained under conditions of strong crop competition. Early treatments will promote

stronger crop competition than later treatments. For best results, AVENGE herbicide should be applied when the crop and wild oats are growing vigorously.

AVENGE herbicide controls wild oats by stopping their growth. Obvious signs of plant death may not be seen for 3 to 4 weeks but the competitive effect of these plants will have been removed.

CROPS:

SPRING WHEAT Neepawa, Katepwa, Columbus, Glenlea, Selkirk, Chester, Canuck, Benito, Fielder, Leader, Conway, Kenyon, lancer, Oslo, Genesis and HY320 varieties only.

BARLEY All varieties.

TRITICALE Welsh, Carman.

WINTER WHEAT Norstar, Sundance

FALL RYE Cougar, Puma, Frontier, Rymin, Kodiak

CANARY GRASS Seed used as feed for song birds

FORAGES: Alfalfa, Red clover, Sweet clover, Birdsfoot
underseeded to trefoil, Creeping Red fescue, Red fescue,
BARLEY or WHEAT Meadow fescue, Bromegrass, Timothy, Crested
wheatgrass, Orchardgrass, Russian wildrye
grass, Reed canarygrass, Kentucky bluegrass.

NOTE: Do not treat forages without a companion crop. DO NOT treat the wheat and barley companion crops and the underseeded forages if the forages are to be grazed or harvested for feed during the year of seeding.

WILD OAT INFESTATIONS:

201 or more wild oat plants per square meter. Apply 3 litres of this product (840 g active) in 100 litres of spray per hectare.

1 - 200 wild oat plants per square meter. Apply 2.5 litres of this product (700 g active) in 100 litres of spray per hectare.

(Many infested fields have more than 200 wild oat plants per square meter and require the 3 L/ha rate. The lower rates may be adequate in following years when the wild oat population has been reduced.)

GROUND APPLICATION:

Volume of spray per hectare:

A uniform spray of 100 litres per hectare which thoroughly covers the wild oat plants must be used. See chart for amounts of water to be added when a 10 litre pail of AVENGE herbicide is being used. See chart for tips and tip pressures:

CROP	Vol. per ha	Use 10 litre pail of AVENGE Wild Oat Herbicide	Water Needed	Total Solution	Ha covered per 10 L pail
SPRING WHEAT, BARLEY, TRITICALE, WINTER WHEAT, FALL RYE, CANARY GRASS, UNDERSEEDED FORAGES.	100 L	To apply 2.5 L/ha (700 g active)	390 L	400 L	4
	100 L	To apply 3 L/ha (840 g active)	320 L	330 L	3 1/3

TIPS For 100 L rate	TRACTOR Speed	TIP PRESSURE	DIRECTION OF SPRAY
Tee Jet 6502, 8002 or 11002	8 km/h	For all Tips 275 kPa	For all tips 45 degrees Forward
Tee Jet 8001 LP	6.5 km/h		
Delavan LF 2 65° or 80°	8 km/h		

AERIAL APPLICATION: Apply AVENGE herbicide at the recommended

rates in 20 - 50 litres water per hectare.

DO NOT apply when the wind velocity exceeds 15 km/h. Application should be made as close to the growing crop as feasible.

DO NOT permit spray drift to contaminate crops other than those being sprayed. It is recommended that a flagman be located at each end of the field or that an automatic mechanical flagging unit be attached to the aircraft to ensure uniform aerial application and to avoid overlapping. If flagmen are present they should wear chemical resistant disposable coveralls, goggles or face shield and a respirator with appropriate filter. Caution should be exercised to prevent bystander exposure to spray.

MIXING: Fill the spray tank 3/4 full with clean, filtered water then add required quantity of AVENGE. Add additional water required. Circulate the spray mixture in the tank for 5 minutes before spraying begins to ensure thorough mixing.

WAITING INTERVALS: For any broadleaf herbicide registered for tank-mixing with AVENGE, a waiting interval is not required between its application and the application of AVENGE.

Allow a minimum 5 day interval between the application of any other pesticide not registered for tank-mixing with AVENGE and the application of AVENGE. Failure to observe this interval may result in poor wild oat control. A longer waiting interval may be required if any sign of crop stress is evident.

FOAMING: AVENGE herbicide may cause foaming in certain types of water. If this occurs agitation should be kept to a minimum and a silicone anti-foaming agent added, for example, HALT*.

(* Trade mark of Eli Lilly and Company)

SPRAYER INFORMATION: Flat fan spray tips are recommended over cone tips. Pressure at nozzle tips should be 275 kPa, lower pressures may result in poor control.

Tilt spray boom forward 45 degrees if flat fan nozzle tips are used.

Wash sprayer thoroughly after spraying has been completed.

WARNINGS: Use ONLY on the crop varieties listed in this pamphlet. (See Directions for Use).

DO NOT apply after 6-leaf stage of barley, wheat and canary grass.

Under cool weather conditions, or under high humidity the crop may show some initial burning on lower leaves, however, there will be no adverse effects on crop maturity or yield.

DO NOT apply AVENGE if the crop is under extreme drought stress or is showing effects of excessive moisture (poor drainage).

DO NOT make more than one application of AVENGE per growing season.

DO NOT allow livestock to graze treated cereal crops within 8 weeks of treatment. Straw from treated fields can be fed to livestock.

DO NOT treat the wheat and barley companion crops and underseeded forages if the forages are to be grazed or harvested for feed during the year of seeding.

As AVENGE herbicide is highly water soluble, do not spray if crop plants are wet with heavy dew or rain since product will run off.

DO NOT spray if rain is forecast within 6 hours.

DO NOT spray in winds over 15 - 25 kilometers per hour or reduced wild oat control will result. DO NOT let spray drift into adjacent fields.

Keep out of lakes, streams and ponds.

DO NOT spray if freezing temperatures are forecast.

DO NOT use felt-type filter elements because they cause pressure restrictions and cannot be easily cleaned.

Use a 50 or 60 mesh stainless screen element in the main "line strainer" unit.

Use a 50 mesh screen on nozzle strainers when applying 100 litres of solution per hectare.

NOTE: Rotation to other crops can be made the following season.

AVENGE* herbicide may shorten wheat straw slightly but this does not affect the crop yield.

HOW TO USE AVENGE WILD OAT HERBICIDE PLUS BROADLEAF HERBICIDES.

- Select the proper AVENGE herbicide application rate as described in the AVENGE RECOMMENDATIONS TABLE.
- DO NOT apply AVENGE tank-mix combinations under stress conditions.
- In order to assure optimum broadleaf weed control, follow label recommendations of the broadleaf herbicides used with AVENGE.
- When tank mixing broadleaf herbicides use only on barley, canary grass and wheat, and apply only those listed below following the mixing instructions.
- Read and observe all precautions, use directions and restrictions on the label of the product to be tank mixed.

MCPA ester

Bromoxynil

2,4-D ester. DO NOT apply to Canary grass.

MCPA ester plus bromoxynil (BUCTRIL M¹; SABRE ¹).

2,4-DB (EMBUTOX E(1); COBUTOX 400(2); 2,4-D Butyric). DO NOT apply to Canary grass

ESTAPROP(1) DIPHENOPROP 600(3) wheat and barley only. DO NOT apply when underseeded to legumes.

Apply the above tank-mix combinations at a rate of 100 litres spray per hectare by ground equipment or 20 to 50 litres per hectare by aircraft.

LASER 4 Apply AVENGE 280-C + LASER as a tank-mix only on hard red spring wheat. Apply the tank-mix using ground equipment. AVENGE 280-C + LASER will control wild oats and green foxtail.

ALLY 5 Use AVENGE 280-C at 3 L/ha plus ALLY or REFINE

REFINE 5 as a tank-mix only on wheat and barley grown in soils with a pH of 7.5 or lower.

- . Precisely follow all use directions regarding crop rotations on the tank-mix partner labels.
- . DO NOT apply the tank-mix to Canary grass.
- . DO NOT add surfactant to the AVENGE +ALLY or AVENGE + REFINE tank-mixes.
- . See below for mixing directions and cautions.
- . DO NOT apply the AVENGE 280-C + LASER, AVENGE 280-C + ALLY or AVENGE 280-C + REFINE tank-mixes by aircraft.
- . When tank-mixing follow the most restrictive precautions directions and recropping/rotation limitations that appear on both products labels.

Mixing Note: AVENGE and dry flowable herbicides. When tank-mixing a dry flowable herbicide such as ALLY or REFINE with AVENGE.

Make sure the dry flowable is thoroughly dissolved in the water before adding AVENGE herbicide. On repeat tank-loads if any tank-mix spray solution remains in the tank, prepare a dry flowable/water slurry and add it to the required water volume in the spray tank prior to adding AVENGE.

CAUTION:

- . DO NOT tank-mix AVENGE* herbicide with or spray within 5 days any formulation containing MCPA amine, 2,4-D amine, dicamba (Banvel⁶ or TARGET⁷, DYVEL⁶, BLAGAL⁷ or any herbicide other than those listed above as crop injury or reduced weed control may result.
- . DO NOT tank-mix AVENGE with ANY broadleaf herbicide, except 2,4-DB, for use on Underseeded Forages.
- . DO NOT tank-mix AVENGE herbicide with any formulation containing 2,4-D ester or 2,4-DB on Canary Grass.

MIXING INSTRUCTIONS FOR TANK MIXES OTHER THAN DRY FLOWABLES

1. Fill tank one-half to three-quarters full with clean water and start agitating.
2. Add the broadleaf herbicide to the partially filled tank while agitating.
3. Add AVENGE herbicide when tank is three-quarters filled while agitating. Fill tank and agitate, or, recycle for at least five minutes before spraying.
4. Continue agitation until spraying is completed.

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- (1) Registered trade mark of Rhone Poulenc, Netherlands.
- (2) Registered trade mark of Interprovincial Co-operatives Ltd.
- (3) Registered trade mark of United Agri Products.
- (4) Registered trade mark of Hoechst, Inc.
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