

A2 → Read the entire label before using this product.

Ⓒ → COMBUSTIBLE.

4400  
4400

B →

Do not contaminate water, food-stuffs, seed or feed by storage and disposal.

STORAGE:  
STORE ABOVE 32°F TO KEEP FROM FREEZING.

Freezing will result in crystals which settle to the bottom of the can. If allowed to freeze, place in a warm room and roll and/or shake the container frequently for several days to redissolve before using.

DISPOSAL:  
Wastes of this pesticide may cause eye and skin irritation and may be dangerous. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of according to label use instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Empty container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.

Triple rinse container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

ACCEPTED  
OCT - 9 1984  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 524-119

NOV 1984

3, F 4:

Application and incorporation of Avadex per acre and 1% to 3% can be made up to 3 immediately after planting for the control of wild oat seedlings of grain in the Northwest. This is by increased yield result.

Monocots and dicots rate based on the rate of this planting for the control.

Use only— 1% to 3% to or after planting for the control of wild oat seedlings of grain in the Northwest. This is by increased yield result.

Use only— 1% to 2 quarts per acre for both light and heavy applications reduce proportion to the area treated according to the label.

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**MINIATURE FACSIMILE Type Size Meets Requirements**

**RESTRICTED USE PESTICIDE**

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

# AVADEx

HERBICIDE BY

# Monsanto

Emulsifiable herbicide for fall or spring soil treatment to control wild oats in certain spring planted crops.

**USE SUMMARY**

- Before Seeding
- After Seeding
- Spring—Before or After Seeding
- Fall— Before Seeding
- Spring—Before or After Seeding
- Fall— Before Seeding
- Spring—Before or After Seeding
- Spring—Before or After Seeding
- Spring—Before or After Seeding
- Spring—Before or After Seeding
- Fall— Before Seeding
- Spring—Before Seeding

Use only according to label instructions. Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

Keep out of reach of children.

### WARNING!

**CAUSES EYE AND SKIN IRRITATION. HARMFUL IF SWALLOWED.**  
Do not get in eyes, on skin or clothing.

When handling or spraying wear rubber gloves, goggles, long trousers and long sleeved shirt or jacket of closely knit material along with leather or rubber boots high enough to cover the ankle.

Do not use or store near heat or flame.  
**FIRST AID: IF IN EYES,** immediately flush with plenty of water for at least 15 minutes. Call a physician. **IF ON SKIN,** wash with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse.

EPA Reg. No. 524-119-AA

ACTIVE INGREDIENT:	
*S-(2,3-dichloroallyl) diisopropylthiocarbamate	45.7%
INERT INGREDIENTS:	54.3%
	100.0%

\*Contains 4 pounds S-(2,3-dichloroallyl) diisopropylthiocarbamate per gallon.

**KEEP ABOVE 32°F TO KEEP FROM FREEZING.**  
Freezing will result in crystals which settle to the bottom of the can. To prevent freezing, place in a warm room (72°F) and roll over while the can frequently for several days to redissolve.

In case of an emergency involving this product, call Collect, day or night, (314) 694-4000.



NET 5 U.S. GAL.

MONSANTO COMPANY • AGRICULTURAL PRODUCTS • ST. LOUIS, MISSOURI 63167, U.S.A.

**ACCEPTED**  
OCT - 9 1984  
Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, this pesticide registered under EPA Reg. No. 524-119

**BEST AVAILABLE COPY**

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### LIMIT OF WARRANTY AND LIABILITY

This company warrants that this product conforms to the chemical description on the label and is not soley fit for the purposes set forth in the Complete Directions for Use ("Directions"), unless used in accordance with these Directions under the conditions described therein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall properly notify this company of any loss or damage based on a contract, lease, or other legal instrument, other than for or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from the use of this product. The liability of this company is limited to the extent of the actual damage caused by the use of this product under the conditions specified in the Directions. This liability is limited to the extent of the actual damage caused by the use of this product under the conditions specified in the Directions. This liability is limited to the extent of the actual damage caused by the use of this product under the conditions specified in the Directions.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, DAMAGES OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHER WISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE OPTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

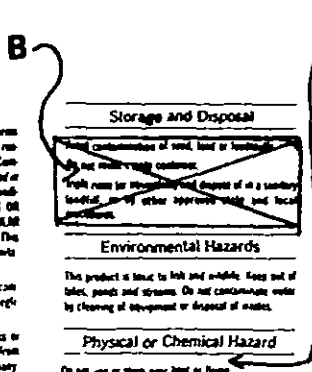
The buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

### NOT FOR REPRODUCTION OR MISCELLANEOUS

WONKASACOMPHAT15M

174-02-001-01

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### Storage and Disposal

Do not mix with other pesticides. Do not use or store near heat or flame. Use only with adequate ventilation.

### Environmental Hazards

This product is toxic to fish and wildlife. Keep out of lakes, ponds and streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

### Physical or Chemical Hazard

Do not use or store near heat or flame.

Use only with adequate ventilation.

In case of FIRE, use water spray, foam, dry chemical or CO<sub>2</sub>, SPILL or LEAK, flush area with water spray.

### HOW TO MIX AND APPLY AVADEx

Only Avadex with 5 or more gallons of water per acre for an overall treatment. Higher volumes approaching 10 gallons per acre will usually result in more uniform spraying, less loss of Avadex by evaporation, and slightly better weed control.

Spraying during winds above 10 miles per hour will reduce the amount of Avadex below the amount required for good weed control.

For best mixing of Avadex with water, proceed as follows:

1. Fill the tank approximately three quarters full with water.
2. Carefully mix while adding the proper amount of Avadex.
3. Fill the remaining portion of the tank with water.
4. Mix thoroughly again if the solution has been left in the tank for any length of time.
5. The sprayer by pass valve should be in operation prior to mixing and through time of application.

Properly change clothing which becomes wet by accidental spillage of Avadex or drift from spray. Wash clothing before reuse.

Broadcast Application—Before spraying, check all hose connections to see that they are properly secured. Adjust the height of the spray boom in the field to insure an even distribution of the chemical on the soil. Avoid overlapping of the spray. Pass over should not be above 30 p.m. and just high enough to provide a uniform spray pattern. Down-draft sprayers should not be used because distribution of Avadex will be less uniform.

A field marker or chain should be attached to both ends of the spray boom to serve as a marker. This avoiding overlapping of untreated strips. Overlapping will double the recommended rate and crop injury may result.

Aerial applications should not be made on hilly fields as this results in uneven distribution which can cause crop injury or poor weed control. Care should be taken to use recommended volumes of water and to avoid delays in incorporation of Avadex into the soil.

Band Application—The amount needed for various band widths and row spacing can be calculated as follows:

$$\text{Band width} \div \text{Row spacing} = \text{Quarts of Avadex needed per acre for band treatment}$$

For example if 2 quarts per acre are recommended for overall treatment and you wish to treat a band 6 inches wide in crop rows spaced 24 inches apart:

$$6 \div 24 = \frac{1}{4}$$

For best results use the calculated rate of Avadex at 1/4 to 1/2 gallon of water per acre for band applications.

### GENERAL AVADEx INFORMATION

Keep Avadex container closed to prevent spills, carry contamination of other materials and to prevent evaporation which will increase the strength of Avadex.

Avadex is recommended for use in the crop barley, corn (grain and silage), flax, forage legumes, leeks, peas, potatoes, soybeans and sugar beets only. Other crops should not be treated with Avadex because injury may occur. Spraying equipment must be properly calibrated—application of too much Avadex may injure the crop—application of too little Avadex may result in poor weed control.

Avadex should be sprayed on the soil before weeds germinate. If weeds have emerged, tillage prior to or following spraying must be relied upon for their control.

Before applying Avadex, be sure the soil is in good working condition. This applies particularly to clay soils.

AVOID APPLICATION TO A FIELD LEFT IN A BRIDGED CONDITION. Application to a field which is not, lumpy, rough or ridged will result in reduced weed control and increased crop thinning.

The incorporation of the chemical into the soil must be completed as soon as possible on the day of spraying. The incorporation should not be deeper than 2 inches because deeper incorporation tends to dilute the chemical, decreasing weed control and increasing the risk of crop thinning.

When summerfallow or plowed ground is being treated, only a light disk (incorporation) is required. If stubble ground with a heavy trash cover is being treated, or if the soil is wet or lumpy (resulting from heavy rains), a second tillage operation either before or after spraying is recommended.

Recommended rates should be followed closely in order to 1. Avoid crop injury 2. Control weed outbreaks.

Wet soil control may be evaluated by removing the surface inch or two of soil at the time of germination to inspect the number of weed seeds that were killed before emergence. Weed seeds are usually killed before emergence, but occasionally and particularly under dry conditions, plants may emerge before they die.

### NOTE

Domestic soils should not be treated where Avadex was used at 1 1/2 quarts per acre or more the previous year. There is a possibility that Avadex may carry over sufficiently to injure the crop.

Under conditions of prolonged high temperature at the time of weed germination, or drought in spring, Avadex may not maintain the usual high standard of control.

Seeding should be done either before or after spraying and incorporation depending upon the crop that is to be sown. If seeding is delayed, shallow working of the treated area prior to seeding will help to bring the effects of the chemical.

Rates of application given on this label are general. Consult the Agricultural Experiment Station or Extension Service Weed Specialists for specific recommendations regarding dosage and method of application. Use only in the manner recommended on the label to avoid possible injury to persons, animals or crops, or other undesirable consequences.

### DIRECTIONS FOR USE

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

Before using, be sure to read and understand the "Warning," "General Avadex Information" and "How to Mix and Apply Avadex" sections of this label.

### FALL TREATMENT

For fall use on spring planted sugar beets, flax and barley only.

When used on the fall, Avadex should be applied within 2 to 3 weeks of soil freeze up. Applications made more than 3 weeks before freeze up may result in reduced effectiveness of the chemical.

1. Apply the recommended rate of Avadex shown under "Specific Crop Use" section (See "How to Mix and Apply Avadex" section).
2. On summerfallow ground, when a leek and two of lumps and trash, incorporate Avadex to a depth of 2 inches or less with a disk plus harrow or 2 harrowings at right angles is seen as possible after spraying. On stubble or heavy ground, disk before Avadex application and double disk at right angles to a depth of 2 inches or less as soon as possible after spraying. (See "General Avadex Information" and "Specific Crop Use" sections.)
3. If soil must be ridged after incorporating Avadex to prevent soil erosion by high winds, the depth of ridging should be kept to a maximum. Deep ridging may decrease the effectiveness of the chemical or result in crop injury at the spring.
4. In preparing the Avadex treated area for seeding in the spring, care must be taken to avoid working the soil any deeper than 2 inches. Deep tillage, greater than 2 inches in depth, tends to dilute the chemical, decreasing the weed control and increasing the risk of crop injury.

### SPRING TREATMENT

For use on barley, corn, flax, forage legumes, leeks, peas, potatoes, soybeans and sugar beets only.

Avadex can be applied and incorporated either before seeding or after seeding on certain crops in the spring. (See "Specific Crop Use" section.) When Avadex is applied before seeding in the spring, do not exceed 3 weeks between the time of application and crop planting when incorporation is made after planting of the crop. Apply and incorporate Avadex before crop seeds begin to sprout, generally within 7 days after planting.

Before Seeding Incorporation—Incorporate with a disk-type implement followed by a harrow. Two disk rigs at right angles may be required under heavy or sticky soil conditions. Under light and easily worked soil conditions, 2 harrowings at right angles may be sufficient.

After Seeding Incorporation—Disk crop seed to a depth of 2 to 3 inches when possible. Apply the recommended rate of Avadex and incorporate with a harrow only. Two harrow rigs at right angles will be necessary. This method of incorporation is not effective if contact soil prevents penetration of harrow teeth or trash accumulates at the harrow sections.

Band Application Incorporation—Use hooded power driven rotary tillage or ground driven tillers. Consult a local agricultural authority for specific recommendations on suitable band application and incorporation equipment for use under specific soil and weather conditions.

### SPECIFIC CROP USE

Barley—Application of Avadex at 1 1/2 quarts per acre is recommended after seeding of barley for the control of wild oats. Seed must be at a depth of at least 2 inches to provide a safety zone of untreated soil above the seed. Application and incorporation must be done before harvest spread to prevent crop injury. Incorporate with a double harrowing at right angles immediately after application.

Corn (North Dakota, Minnesota and Missouri only)—Apply and incorporate Avadex at the rate of 1 1/2 quarts per acre before or after planting for the control of wild oats. For band application reduce the amount used per acre in proportion to the area treated. Calculate the amount according to the formula given on this label.

Flax—Apply and incorporate Avadex at the rate of 2 1/2 quarts per acre before or after seeding for the control of wild oats. Under favorable spring moisture conditions, moderate rates of green leafy and wild millet will be obtained with application of 2 quarts per acre of Avadex.

Forage Legumes (Alfalfa, sweet, red and white clover)—Apply and incorporate Avadex at the rate of 1 1/2 to 2 quarts per acre before seeding for the control of wild oats, and for the control of hardtail in alfalfa in Oklahoma only.

When forage legumes are overseeded with flax, use 1 1/2 to 2 quarts per acre before seeding for the control of wild oats. When legumes are overseeded with barley, DO NOT EXCEED an application of 1 1/2 quarts per acre after planting of the crop.

Peas and Leeks—Application of Avadex at 1 1/2 quarts per acre is recommended before seeding for the control of wild oats. Seed must be at a depth of at least 2 inches to provide a safety zone of untreated soil above the seed. Application and incorporation must be done before harvest spread to prevent crop injury. Incorporate with a double harrowing at right angles immediately after application.

### AVADEx

Use the label instructions shown on this label. Care, Flax, Forage Legumes (alfalfa, sweet red, white clover), Leeks, Peas, Potatoes, Soybeans, Sugar Beets.

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