

MINIATURE FACSIMILE
 Smallest Type size on package 12 point

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.

ACCEPTED
 534-119
 1882

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%
	<u>100.0%</u>

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

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 (72°F.) and roll and shake the can frequently for several days to redissolve.

In case of an emergency involving this product, Call Collect, day or night, (314) 634-4000



NET 5 U.S. GAL.

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

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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 reasonably fit for the purpose set forth in the Company's Directions for Use ("Directions"), when used in accordance with those 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 promptly notify this company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this company, including but not limited to incompatibility with products other than those set forth in the Directions, unusual weather (i.e. weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied with the normal range being determined on the basis of the average range for the prior 40 years compiled from the best available information, and if weather pertains, including but not limited to hurricanes, tornadoes and floods) as well as weather considerations set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil or crop.

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, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION 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 REFORMULATION OR REPACKAGING.

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EPA Est. 520-143

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Storage and Disposal

Avoid contamination of seed, feed or foodstuffs. Do not reuse empty container. Triple rinse (or equivalent) and dispose of in a sanitary landfill, or by other approved state and local procedures.

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 CO₂. SPIKE or LEAK, flush area with water spray.

HOW TO MIX AND APPLY AVADEX
Dilute 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 canopy, as noted 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.

Promptly 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 ensure an even distribution of the chemical on the soil. Avoid overlapping of the spray. This spray should not be above 30 psi and jet high enough to provide a uniform spray pattern. Boomless sprayers should not be used because distribution of Avadex will be too uneven.

A field marker or chain should be attached to both ends of the sprayer boom to serve as a marker, thus avoiding overlapping or untreated strips. Overlap may result double the recommended rate and crop injury may result.

Aerial applications should not be made on July fields as they result in uneven distribution which can cause crop injury or poor weed control. Care should be taken to not exceed recommended amount of water to avoid delays in incorporation in Avadex into the soil.

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

$$\begin{aligned} &\text{Band width} \\ &\div \text{Spaced by inches between crop rows} \\ &= \text{Recommended amt.} \\ &\times \text{all rate in quarts} \\ &= \text{Quarts of Avadex needed per acre for band treatment} \end{aligned}$$

For example, if 2 quarts per acre are recommended for overall treatment and you wish to treat a band 8 inches wide in crop rows spaced 24 inches apart:

$$8 \div 24 = \frac{1}{3} \text{ quart of Avadex needed per acre of crop for the band treatment.}$$

For best results, mix the calculated rate of Avadex in from 5 to 10 gallons of water per acre for band applications.

GENERAL AVADEX INFORMATION

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

Avadex is recommended for use in the crops barley, corn (grain and stover), 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,illage 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 dry soils.

AVOID APPLICATION TO A FIELD LEFT IN A MOIST CONDITION Application to a field which is wet, 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 subsoil tillage or plowed ground is being treated, only a single tilling (incorporation) is required. If stubble ground with a heavy trash cover is being treated, or if the soil is wet or lumpy (making proper mixing difficult), a second tillage operation either before or after spraying is recommended.

Recommended rates should be followed exactly in order to: 1. Avoid crop injury. 2. Control wild oats.

Wild oat control may be evaluated by examining the surface neck or top of soil at the time of germination to inspect the number of wild oats that were killed before emergence. Wild oats are usually killed before emergence, but occasionally and particularly under dry conditions, plants may emerge before they die.

NOTE

Domestic oats should not be seeded 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 this crop.

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

Seeding should be done either before or after tilling and incorporation, depending upon the crop that is to be sown. If seeding is delayed, shallow reworking of the treated area prior to seeding will not destroy the effects of the chemical.

Rules of application given on this label are general. Consult the Agricultural Experiment Station or Extension Service Weed Specialist 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 unintended 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 in 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 subsoil tillage ground, which is moist and free of lumps and trash, incorporate Avadex to a depth of 2 inches or less with a disk plus harrow or 2 harrows at right angles as soon as possible after spraying. On stubble or lumpy 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 minimum. Deep ridging may decrease the effectiveness of the chemical or result in crop injury in 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 wild oat 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 application 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 sweeps at right angles may be required under heavy or trashy soil conditions. Under light and easily worked soil conditions, 2 harrows 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 harrows at right angles will not be necessary. This method of incorporation is not effective if compact soil prevents penetration of harrow teeth, or trash accumulates in the harrow sections.

Band Application, Incorporation—Use bowled power driven rotary tillers 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 (a preseed crop in pure) incorporate with a double harrowing at right angles immediately after application.

Corn (North Dakota, Minnesota and Montana 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 this amount according to the formula given on this label.

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

Forage Legumes (Alfalfa, sweet, red and white clovers)—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 bestial in alfalfa in Oklahoma only.

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

Peas and Leeks—The application and incorporation of Avadex at 1 1/2 quarts per acre for peas and 1 1/2 quarts per acre for leeks can be made up to 3 weeks before planting or immediately after planting into a well prepared seed bed for the control of wild oats (seed crusting and delayed maturity of peas may occur on clay points in the Northwest. This is usually more than offset by increased yield resulting from the control of wild oats).

Potatoes (North Dakota, Minnesota and Montana only)—Apply and incorporate Avadex at the rate of 1 1/2 to 2 quarts per acre before planting for the control of wild oats.

Soybeans (North Dakota and Minnesota only)—Apply and incorporate Avadex at the rate of 1 1/2 to 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 this amount according to the formula given on this label.

Sugar Beets—Apply and incorporate Avadex before seeding for wild oat control, 1 1/2 to 2 quarts per acre overall is recommended for both light and heavy clay loam soils. For band application, reduce the amount per acre in proportion to the area treated. Calculate this amount according to the formula given on this label.

Wheat—When Avadex is used in combination with other registered sugar beet herbicides to control weeds other than wild oats, DO NOT EXCEED a broadcast application rate of 2 quarts of Avadex per acre on heavy soils or 1 1/2 quarts of Avadex per acre on light sandy soils.

AVADEX CROP USE SUMMARY

Use this table in combination with detailed label instructions shown for specific crops.

CROP	RECOMMENDED RATE (quarts per acre)	WHEN TO USE
Barley	1 1/2	Fall—Before Seeding Spring—After Seeding
Corn	1 1/2	Spring—Before or After Seeding
Flax	1 1/2—2	Fall—Before Seeding Spring—Before or After Seeding
Forage Legumes (Alfalfa, sweet, red, white clover)	1 1/2—2	Spring—Before Seeding
Leeks	1 1/2	Spring—Before or After Seeding
Peas	1 1/2	Spring—Before or After Seeding
Potatoes	1 1/2—2	Spring—Before Seeding
Soybeans	1 1/2—2	Spring—Before or After Seeding
Sugar Beets	1 1/2—2	Fall—Before Seeding Spring—Before Seeding

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