

May be stored in unheated buildings.

TOBACCO STATES CHEMICAL CO., INC.

CAUTION: For small grains (barley, oats, rye and wheat) - Do not forage or graze treated grain fields within 2 weeks after treatment with this product. Do not feed treated straw to livestock.

DIRECTIONS:

WEED CONTROL IN SPRING WHEAT AND BARLEY!
Use 1 part per acre in the amount of water necessary for even spraying. Dosage may be reduced to 14 pint or in reased to 4 pints per acre in accordance with resistance of weeds to be controlled. Spray when grain is in full tiller stage (6 to 8 inches tall) until the early boot stage. Injury may result if sprays are applied to young seedlings or when grain is in the boot or shot made stage. Sprays may be used after the hard dough trace stage. Sprays may be used after the hard stage to control weeds which may interfere with hardstage to control weeds which may interfere with hardstage.

stage to control weeds which may interfere with harvesting.

WEED CONTROL IN WINTER WHEAT AND RYE.

Apply ½ to ¾ pints per acre in the spring from the apply 1 to 1½ pints per acre in the spring from the ally there to the jointing stages.

WEED CONTROL IN OATS NOT UNDERSEEDED WITH A LEGUME: Use not over ½ pint per acre and apply from full tiller to boot or after milk stage to ripening grain. Do not apply from boot to milk stage or in seedling stage.

m seedling stage.

WEED CONTROL IN CORN: Postmergence — Use 3 8 pint per acre in the amount of water necessary for even distribution. Dosage may be reduced to ½ pint or increased to ½ pint in accordance with resistance of weeds to be controlled. Apply from emergence to tasselling. After corn is 6 to 8 inches tall, use drop nozzles to keep spray off corn foliage. Do not apply from tasselling to dough stage. Presemengence. from tasselling to dough stage. Pre-emergence -Use 1 to 2 quarts of Ester 410 Conc. in 10 to 20 gallons of water per acre. Spray 3 to 6 days after planting but before corn emerges. Do not use where corn is planted in very light sandy soil.

ROADSIDE AND GENERAL WEED CONTROL: Along roads, right-of-ways, ferce rows, ditch banks, and in pole yards, farmyards and similar nor crop areas, use 1 to 1.2 quarts of Ester 410 Conc. in 100 gallons of water. Apply when weeds are growing actively and foliage is fully expanded. Wet all foliage thoroughly. THEF AND PASTURE WEED CONTROL: To control many broadleaved weeds including Bittersweet, broomweed, croton weed, docks, dogfennel, kochia, and marshylder use 3, to 1 quarts per acre in the amount of weed, trotol weed, docas, dogsterner, known, and marsh-elder, use 14 to 1 quarts per acre in the amount of water needed for even spraying. Apply then, when weeds are growing actively. Do not graze to dairy animals within 7 days after treatment.

NOTE: Do not use on creeping grasses, such as bent, except for spot spraying nor on freshly seeded lawns or pasture lands until grass is well started. Most legumes are usually damaged or killed. For wild garlic and wild omons, in pastures, apply 2 to 3 quarts per acre in very carry spring every year for at least 3 years.

woody Plant Control. To control 2.4 D susceptible species in fence riws, ditch banks, right-of-ways, along roads farmyard and similar non-crop areas, spray brush up to 6 to 8 feet tall after foliage is well developed using drenching spraying of 112 quarts of Ester 410 Conc. in 50 g dlons of water. Wet thoroughly all parts of the starts including fairners. all parts of the plants including foliage, shoot stems and bark.

With good growing conditions and high soil moisture with good growing conditions and righ soft mosture sprays may be used up to 2 to 3 weeks before normal frost time, but spraying soon after leaves are fully open in the spring usually gives best results. Control may be less effective during het dry weather when deep soil less effective during hot dry weather when deep soil moisture is deficient. For Sand Shinnery Oak, use 1 quart of Ester 110 Con. either in 5 gallons of desel or fiel oil, or in 4 gallons of water plus 1 gallon of oil. Apply by airplane between May 15 and June 15. For Sand Sagebrush: Use 1 quart of Ester 410 Conc. in 1½ gallors of desel of fiel oil. Apply by airplane when plust as growing a fiely and foliage is fully devel

GENERAL INFORMATION

The number of gallons of the mixture to use per acre will depend upon the type of spray equipment. Where low gallonage spray equipment is used-5 or less gallons

per acre will give adequate coverage.

Do not let Ester 410 Conc. come into contact with vegetables, flowers, grapes, fruit trees ornamentals, cotton or other desirable plants which are sensitive to 2.4-D and its formulations, and do not permit spray mists containing it to drift onto them, since even min. ute quantities of the spray may cause injury during both growing and dormant periods. (Coarse sprays are less likely to drift.) Accordingly, applications by airplane, ground rigs and hand dispensers should be carried out only when there is no hazard from drift. Do not apply by airplane in the vicinity of cotton, grapes or other desirable 2,4-D susceptible vegetation. At higher temperatures vaporization may cause injury to susceptible plants growing nearby. Excessive amounts of this weed killer in the soil may temporarily stop seed germination or plant growth. Do not contaminate irritation ditches or water used for domestic purposes. Do not store near fertilizers, seed, insecticides or fungicides. To avoid injury to desirable plants, do not store, handle or apply other agricultural chemicals with the same containers or equipment used for Ester 410 Conc. Be sure that use of this product conforms to all applicable regulations.

DIRECTIONS:

GENERAL DIRECTIONS: Apply Ester 410 Conc. at low pressures (30 to 50 pounds) during warm weather when weeds are well leafed out and growing actively. Dosages as low as ¼ pint per acre will usually be satisfactory for young tender growth of sensitive weeds such as wild mustard. For less sensitive weeds and under conditions where kill is difficult, higher dosage will be required. Extra sprays may be needed for hard-to-kill weeds.

important: When used on crops at the higher rates recommended, Ester 410 Conc. may cause some injury to crop plants, particularly when crop growth is very rapid. Where weeds are a serious problem, however, the control obtained will often more than offset the crop damage. Do not use Ester 410 Conc. on crops other than those listed.

TO PREPARE A SPRAY: Add half the required amount of water to the spray tank, then the Ester 410 Conc. with agitation, and finally the balance of the water with continued agitation.

NOTE: This forms an emulsion—not a solution—which tends to separate on standing. Provide agitation to ensure uniform spray mixture.

NOTE: One tablespoon of Ester 410 in 6 quarts of spray is about equal to 1 pint in 100 gallons.

PARTIAL LIST OF WEEDS

CONTROLLED BY ESTEP 410 CONC. Thistles_ Mustards Shepr Purse Peppergrass Wild in ning Glory Bitterweed Broomweed_ Pigweed Many other broad Plantain Croton Weed leafed weeds Dandelion Ragweed Alder Dog Fennel Buckbrush **Tarweed** Fanweed Vetch Elderberry Kochia Wild Carrot Hazel Lamb's Quarter Wild Carlic Costal Sage Wild Onion Mallow Sand Sage Marshelder Wild Radish Sand Shinnery Oak Willow_ Certain other woody plants Sumac

Local conditions may affect the use of herbicides. State agricultural authorities in many states issue recommendations to fit local conditions.

For more specific uses of Ester 410 Conc. WEED KILL-ER, consult State Agricultural Experiment Station or consult State Agricultural Experiment Station or Extension Service Weed Specialists. Net Contents: ON



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PARTIAL LIST OF WEEDS

CONTROLLED BY ESTER 410 CONC. Shepherd Purse Thistles_ Mustards Wild Morning Glory Bitterweed Peppergrass Broomweed Pigweed Many other broad leafed weeds Croton Weed Plantain Dandelion Alder Ragweed Buckbrush Dog Fennel Fanweed Tarweed Vetch Elderberry Wild Carrot Kochia Hazel Costal Sage Lamb's Quarter Wild Garlic Wild Onion Mallow Marshelder Sand Sage Wild Radish Sand Shinnery Oak Willow_ Sumac

Local conditions may affect the use of herbicides. State agricultural authorities in many states issue recommendations to fit local conditions.

For more specific uses of Ester 410 Conc. WEED KILL-ER, consult State Agricultural Experiment Station or consult State Agricultural Experiment Station or Extension Service Weed Specialists. Net Contents: ONE GALLON **CONCENTRATE** LOW VOLATILE 4 lbs. Acid Per Gallor ACTAVE INGREDIENTS. where the property of the pro INTEL PROBEDIENTS **CAUTION:** Keep out of reach of children. Seg other cautions on side panel Harmful if Swallowed. MAY CAUSE SKIN IRRITATION Avoid Contact With Eves, Skin, and Clothing, Do not reuse empty containers. Destroy by burying in a safe place. USDA Rec. No. 226-156.

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TOBACCO STATES CHEMICAL CO., INC. Lexington, Kentucky

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DIRECTIONS:

WEED CONTROL IN SPRING WHEAT AND BARLEY!
Use 1 pint per acre in the amount of water necessary for even spraying. Dosage may be reduced to ½ pint or increased to ¾ pints per acre in accordance with resistance of weeds to be controlled. Spray when grain is in full tiller stage (6 to 8 inches tail) until the early boot stage. Injury may result if sprays are applied to young seedlings or when grain is in the boot or shot tade stage. Sprays may be used after the hard dough stage to control weeds which may interfere with harvesting.

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WEED CONTROL IN CORN: Postmergence — Use 3/8 pint per acre in the amount of water necessary for even distribution. Dosage may be reduced to ¼ pint or increased to ½ pint in accordance with resistance of weeds to be controlled. Apply from emergence to tasselling. After corn is 6 to 8 inches tall, use drop nozzles to keep spray off corn foliage. Do not apply from tasselling to dough stage. Pre-emergence—Use 1 to 2 quarts of Ester 410 Conc. in 10 to 20 gallons of water per acre. Spray 3 to 6 days after planting but before corn emerges. Do not use where corn is planted in very light sandy soil.

ROADSIDE AND GENERAL WEED CONTROL: Along roads, right-of-ways, fence rows, ditch banks, and in pole yards, farmyards and similar non-crop areas, use I to 1½ quarts of Este: 410 Conc. in 100 gallons of water. Apply when weeds are growing actively and foliage is fully expanded. Wet all foliage thoroughly. TURF AND PASTURE WEED CONTROL: To control many broadleaved weeds including Bittersweet, broomweed, croton weed, docks, dogfennel, kochia, and marshelder, use 3¼ to 1 quarts per acre in the amount of water needed for even spraying. Apply then, when weeds are growing actively. Do not graze to dairy animals within 7 days after treatment.

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WOODY PLANT CONTROL: To control 2,4-D susceptible species in fence rows, ditch banks, right-of-ways, along roads, farmyards and similar non-crop areas, spray brush up to 6 to 8 feet tall after foliage is well developed using drenching spraying of 1½ quarts of Ester 410 Conc. in 50 gallons of water. Wet thoroughly all p is of the plants, including foliage, shoot stems and rk.

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