



### General Directions

Use BASF U-46 D4 Ester LV-BP to control bitterweed, broomweed, croton weed, dandelions, docks, dogfennel, fanweed, kochia, lambsquarters, mallow, marshelder, musk thistle, mustards, peppergrass, pigweed, plantains, ragweed, shepherdspurse, St. Johnswort, tarweed, thistles, vetch, white top, wild carrot, wild garlic, wild morningglory, wild onion, wild radish, many other broad-leaved weeds, certain woody perennials including alder, buckbrush, elderberry, hazel, coastal sage, sand sagebrush, sumac, willow, and sand shinnery oak.

Apply BASF U-46 D4 Ester LV-BP sprays at low pressures (30 to 50 pounds) during warm weather when weeds are well leafed out and growing actively. DOSAGES AS LOW AS 1/4 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 DOSAGES WILL BE REQUIRED.

**TO PREPARE A SPRAY:** Add half the required amount of water or oil to the spray tank, then add the BASF U-46 D4 Ester LV-BP with agitation, and finally the balance of the water or oil with continued agitation. **WARNING:** If BASF U-46 D4 Ester LV-BP is to be used in straight oil mixtures, do not let water get into the BASF U-46 D4 Ester LV-BP itself nor into the finished mixture. **NOTE:** BASF U-46 D4 Ester LV-BP in water forms an emulsion—not a solution—which tends to separate on standing. Provide agitation to prevent such separation and ensure uniformity of spray mixture.

### Use Directions

**FOR TREATING SMALL AREAS:** One tablespoonful of BASF U-46 D4 Ester LV-BP in 1 1/2 gallons of oil or water is about equal to one quart in 100 gallons.

**ROADSIDE AND GENERAL WEED CONTROL:** For weed control along roads, right-of-ways, fence rows, drainage ditch banks, in pole yards, farm yards and similar non-crop areas, use 1 to 1 1/2 quarts of BASF U-46 D4 Ester LV-BP in 100 gallons of water. Wet all foliage thoroughly.

**TURF AND GRASS PASTURE WEED CONTROL:** To control many broadleaved weeds, including bitterweed, broomweed, croton weed, docks, dogfennel, kochia, marshelder, and musk thistle, use 1 1/2 to 2 pints per acre in the amount of water needed for even spraying. Apply when weeds are growing actively. For wild garlic and wild onion in pastures, use 2 to 3 quarts per acre, making 3 applications (fall-spring-fall or spring-fall-spring) in very late fall and early spring. **NOTE:** Do not use BASF U-46 D4 Ester LV-BP on creeping grasses, such as bent,

except for spot spray, nor on freshly seeded lawns or pastures until grass is well started. Dichondra and most legumes (clovers) are usually damaged or killed. Do not graze treated areas by dairy animals within 7 days after application.

**WEED CONTROL IN SMALL GRAINS NOT UNDER-SEEDED WITH A LEGUME:** **NOTE:** Do not permit dairy animals or meat animals being finished for slaughter to forage or graze treated grain fields within 2 weeks after treatment.

**SPRING WHEAT AND BARLEY:** Use 1/2 pint per acre in the amount of water necessary for even distribution. Dosage may be reduced to 1/4 pint or increased to 3/4 pint per acre in accordance with resistance of weeds to be controlled. Spray when grain is in the full tiller stage (6 to 8 inches tall). Injury may result if sprays are applied to young seedlings or when grain is in the boot or shot blade stage.

**WINTER WHEAT AND RYE:** Apply 1/2 to 3/4 pint per acre in the spring, from the fully tillered to the jointing stages.

**SPRING SEEDED OATS:** Use not over 1/2 pint per acre in the amount of water necessary for even distribution. Apply when oats are in full tiller stage (4 to 8 inches tall) but when weeds are still small or as suggested by your state agricultural experiment station or extension service weed specialists. Crop injury may result from application earlier than "tiller" or later than "boot" stage.

**Fall Seeded Oats (Southern) Grown for Grain:** To control curly dock, wild winter peas and vetch use 1 to 1 1/2 pints of BASF U-46 D4 Ester LV-BP per acre. For wild garlic and wild onions, use 1 1/2 to 2 pints per acre. Apply after oats are fully tillered, but before boot or heading stage. To avoid injury to crop, do not spray during or right after cold spell. The higher dosage rates may cause some crop plant injury, which does not ordinarily cause any yield reduction.

**Late Season or Pre-harvest Use on Barley, Oats, Rye, Wheat:** Late or preharvest treatment to control large weeds may be effective under certain conditions such as adequate moisture and succulent weeds. Make application of 1 to 2 pints of BASF U-46 D4 Ester LV-BP per acre after the grain has past the "milk" to the "hard dough" stage. **NOTE:** Do not feed treated straw to livestock.

**WEED CONTROL IN CORN:** Pre-emergence—Use 1 to 2 quarts in 10 to 20 gallons of water per acre. Apply to soil 3 to 5 days after planting but before corn emerges. Do not treat very light, sandy soil. Post-emergence—Use 3/4 pint per acre in the amount of water necessary for even distribution. Dosage may be reduced to 1/2 pint or increased to 1 1/2 pint per acre in accordance with resistance of weeds to be controlled. Apply as soon as possi-

# U-46™ D4-Ester LV-BP

## 2,4-D Low-Volatile Ester Herbicide

For control of many broadleaved weeds, Herbaceous Perennials and Woody Plants Susceptible to 2,4-D

Active Ingredients:  
2,4-Dichlorophenoxyacetic Acid, Butoxypropyl esters ... 72.8%  
2,4-Dichlorophenoxyacetic Acid Equivalent ... 48.0%  
Inert Ingredients ..... 27.2%  
Acid Equivalent: 4 Pounds Per Gallon

**CAUTION**  
KEEP OUT OF THE REACH OF CHILDREN  
HARMFUL IF SWALLOWED  
MAY CAUSE SKIN AND EYE IRRITATION  
AVOID CONTACT WITH EYES,  
SKIN AND CLOTHING

In case of contact, flush eyes with plenty of water for at least 15 minutes and get medical attention; wash skin with soap and plenty of water. Remove and wash contaminated clothing before re-use. Do not wear contaminated shoes.

**Net Contents 5 Gallons**  
BASF Wyandotte Corporation  
Agricultural Chemicals  
Parsippany, New Jersey 07054

ble after most of weeds have emerged. After corn to 6 inches tall, use drop nozzles to keep spray off foliage. Do not apply from tasseling to dough stage.

**WEED CONTROL IN GRAIN SORGHUM:** Post-emergence—Use 1/2 to 3/4 pint per acre in the amount of water necessary for distribution, when the sorghum is 6 to 8 inches tall and secondary roots are well established. Drop nozzles when crop is over 10 inches tall. Do not apply during flowering to early dough stage.

**WOODY PLANT CONTROL:** To control 2,4-D susceptible species in rangelands, pastures, fence rows, drainage ditch banks, farmyards, and right-of-ways, spray up to 6 or 8 feet tall after foliage is well developed. Use 3 quarts of BASF U-46 D4 Ester LV-BP in 100 gallons of water. Wet thoroughly all parts of plants, including foliage, shoot stems and bark. With good growing conditions and high soil moisture, sprays may be used 2 or 3 weeks before normal frost time, but spraying after leaves are fully open in the spring usually gives best results. Control may be less effective during dry weather when deep soil moisture is deficient. **SAND SHINNERY OAK:** Use 1 quart of BASF U-46 D4 Ester LV-BP either in 5 gallons of diesel or fuel oil or 4 gallons of water plus 1 gallon of oil. Apply by air between May 15 and June 15. For **SAND SAGEBRUSH:** Use 1 quart of BASF U-46 D4 Ester LV-BP in 3 gallons of diesel or fuel oil. Apply by airplane when plants are growing actively and foliage is fully expanded.

**DO NOT GRAZE TREATED AREAS BY DAIRY ANIMALS WITHIN 7 DAYS AFTER APPLICATION.**

**SOIL TREATMENT FOR PERENNIAL WEED CONTROL:** For certain noxious deep rooted perennial weeds including leafy spurge, Russian knapweed, hoary creosote, swamp smartweed (tanweed), use 2 to 4 gallons of BASF U-46 D4 Ester LV-BP per acre on non-crop areas, such as fence rows, drainage ditchbanks, and areas, right-of-ways and similar areas. Apply in the amount of water recommended by local state agricultural authorities or as recommended by local state agricultural authorities, extension service weed specialists. Where annual rainfall is less than six inches, irrigation after spraying may give better control.

**IMPORTANT:** WHEN USED ON CROPS AT HIGH RATES RECOMMENDED HEREON, BASF U-46 D4 ESTER LV-BP MAY CAUSE SOME INJURY TO PLANTS, PARTICULARLY WHEN CROP GROWTH IS VERY RAPID, WHERE WEEDS ARE A SERIOUS PROBLEM. HOWEVER, THE CONTROL OBTAINED OFTEN MORE THAN OFFSETS THE CROP DAMAGE. DO NOT USE BASF U-46 D4 ESTER LV-BP ON CROPS OTHER THAN THOSE LISTED HERE.

**Use Precautions**  
Do not apply BASF U-46 D4 Ester LV-BP directly



for spot spray, nor on freshly seeded lawns or until grass is well started. Dichondra and most clovers are usually damaged or killed. Do not treat areas by dairy animals within 7 days of application.

**CONTROL IN SMALL GRAINS NOT UNDERGROWN WITH A LEGUME:** NOTE: Do not permit dairy or meat animals being finished for slaughter or graze treated grain fields within 2 weeks of treatment.

**WHEAT AND BARLEY:** Use 1/2 pint per acre in amount of water necessary for even distribution. Dosage may be reduced to 1/4 pint or increased to 3/4 pint in accordance with resistance of weeds to be controlled. Spray when grain is in the full tiller stage (6 to 8 inches tall). Injury may result if sprays are applied to seedlings or when grain is in the boot or shot stage.

**WHEAT AND RYE:** Apply 1/2 to 3/4 pint per acre during, from the fully tillered to the jointing stages.

**SEEDING OATS:** Use not over 1/2 pint per acre in amount of water necessary for even distribution. When oats are in full tiller stage (4 to 8 inches tall) and weeds are still small or as suggested by your agricultural experiment station or extension service specialists. Crop injury may result from application earlier than "tiller" or later than "boot" stage.

**Seeded Oats (Southern) Grown for Grain:** To control black, wild winter peas and vetch use 1 to 1 1/2 pints of BASF U-46 D4 Ester LV-BP per acre. For wild garlic and onions, use 1 1/2 to 2 pints per acre. Apply after the grain is fully tillered, but before boot or heading stage. Avoid injury to crop, do not spray during or right after a cold spell. The higher dosage rates may cause crop plant injury, which does not ordinarily cause yield reduction.

**Pre-harvest Use on Barley, Oats, Rye:** Late or preharvest treatment to control large weeds may be effective under certain conditions such as adequate moisture and succulent weeds. Make application of 1 to 2 pints of BASF U-46 D4 Ester LV-BP per acre when the grain has past the "milk" to the "hard dough" stage. NOTE: Do not feed treated straw to livestock.

**CONTROL IN CORN:** Pre-emergence—Use 1 to 2 pints in 10 to 20 gallons of water per acre. Apply to soil 7 to 10 days after planting but before corn emerges. Do not use on very light, sandy soil. Post-emergence—Use 1/2 pint per acre in the amount of water necessary for even distribution. Dosage may be reduced to 1/4 pint or increased to 3/4 pint per acre in accordance with resistance of weeds to be controlled. Apply as soon as possible

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**Net Contents 5 Gallons**

**BASF Wyandotte Corporation**  
Agricultural Chemicals  
Parsippany, New Jersey 07054

ble after most of weeds have emerged. After corn is 6 to 8 inches tall, use drop nozzles to keep spray off corn foliage. Do not apply from tasseling to dough stage.

**WEED CONTROL IN GRAIN SORGHUM:** Post-emergence—Use 1/2 to 3/4 pint per acre in the amount of water necessary for distribution, when the sorghum is 6 to 12 inches tall and secondary roots are well established. Use drop nozzles when crop is over 10 inches tall. Do not apply during flowering to early dough stage.

**WOODY PLANT CONTROL:** To control 2,4-D susceptible species in rangelands, pastures, fence rows, drainage ditch banks, farmyards, and right-of-ways, spray brush up to 6 or 8 feet tall after foliage is well developed, using 3 quarts of BASF U-46 D4 Ester LV-BP in 100 gallons of water. Wet thoroughly all parts of plants, including foliage, shoot stems and bark. With good growing conditions and high soil moisture, sprays may be used up to 2 or 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 hot, dry weather when deep soil moisture is deficient. For SAND SHINNER OAK, use 1 quart of BASF U-46 D4 Ester LV-BP either in 5 gallons of diesel or fuel 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 BASF U-46 D4 Ester LV-BP in 3 gallons of diesel or fuel oil. Apply by airplane when plants are growing actively and foliage is fully expended.

**DO NOT GRAZE TREATED AREAS BY DAIRY ANIMALS WITHIN 7 DAYS AFTER APPLICATION.**

**SOIL TREATMENT FOR PERENNIAL WEED CONTROL:** For certain noxious deep rooted perennial weeds including leafy spurge, Russian knapweed, hoary cress and swamp smartweed (tanweed), use 2 to 4 gallons of BASF U-46 D4 Ester LV-BP per acre on non-crop areas such as fence rows, drainage ditchbanks, industrial areas, right-of-ways and similar areas. Apply in late fall as recommended by local state agricultural authorities, experiment station or extension service weed control specialists. Where annual rainfall is less than six inches, irrigation after spraying may give better control.

**IMPORTANT: WHEN USED ON CROPS AT HIGHER RATES RECOMMENDED HEREON, BASF U-46 D4 ESTER LV-BP 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 BASF U-46 D4 ESTER LV-BP ON CROPS OTHER THAN THOSE LISTED HERE.**

**Use Precautions**  
Do not apply BASF U-46 D4 Ester LV-BP directly to, or

otherwise permit it to come into contact with vegetables, flowers, grapes, fruit trees, ornamentals, cotton, or other desirable plants which are sensitive to 2,4-D and similar materials, and do not permit spray mist containing it to drift onto them, since even minute quantities of the spray may cause severe injury during both growing and dormant periods. (Coarse sprays are less likely to drift.) Accordingly, APPLICATION 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. Do not contaminate irrigation ditches or water used for domestic purposes. Do not store near fertilizers, seeds, insecticides or fungicides. Excessive amounts of 2,4-Dichlorophenoxyacetic acid in the soil may temporarily inhibit seed germination or plant growth. To avoid injury to desirable plants, do not store, handle or apply other agricultural chemicals with the same containers or equipment used for BASF U-46 D4 Ester LV-BP. At elevated temperatures vapors from this product may injure susceptible plants in the immediate vicinity.

Rinse equipment and containers and dispose of wastes by burying in non-crop areas away from water supplies. Do not reuse empty containers, dispose of by perforating or crushing and burying with wastes.

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

### Warranty and Disclaimer

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. But neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. The exclusive remedy of user or buyer and the limit of liability of BASF Wyandotte Corporation is the purchase price paid for the quantity of product involved.

EPA Reg. No. 7969-24

U-46™ Herbicide and BASFAPON™ Herbicide are Trademarks of BASF AG, Ludwigshafen am Rhein, West Germany.

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