

Reg # 7969-26

PM-23

197

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOV 1 1991

Khalid H. Akkari, Ph.D.  
BASF Corporation  
P.O. Box 13528  
Research Triangle Park, NC 27709-3528

Dear Dr. Akkari:

Subject: Revised Label Text  
U-46 D4-Ester-LV Herbicide  
EPA Registration No. 7969-26  
Your Submission Dated October 3, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

- 1) There should be a space in the phrase "(2-Ethylhexyl ester)" in the Active Ingredient statement (see the Agency letter dated September 30, 1991).
- 2) The acid equivalency statement below the active ingredient within the ingredients statement should have a different right and left margin than the ingredients themselves. It is preferred that all acid equivalency statements be grouped together beneath the entire ingredients statement. In this case the margins would be irrelevant.
- 3) Within the Statements of Practical Treatment, delete the phrase "wash with soap and plenty of water" from the end of the "If in eyes" statement (see the Agency letter dated September 30, 1991).
- 4) Please note the typographical error in the protective clothing statement.

CONCURRENCES							
SYMBOL	H7505C						
SURNAME	D. KENNY						
DATE	10/29/91						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

297

A stamped copy is enclosed for your records. Please submit three (3) final printed copies for the referenced label, incorporating the above changes.

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosure

4-10-1991

CONCURRENCES								
SYMBOL	H7505C							
SURNAME	D. KENNY							
DATE	10/29/91							

PA Form 1320-1A (1/90) Printed on Recycled Paper OFFICIAL FILE COPY

387

EPA Registration No. 7969-26  
Page 1 of 5  
Registration Standard  
September 1988  
Rev. October 3, 1991

(Front Panel)

## U 46™ D4-Ester-LV

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

For control of broadleaved weeds in wheat, barley, rye, corn, pastures, rangeland and non-crop areas and certain wood brush and trees in rangeland and non-crop areas

**Active Ingredient:**

2,4-Dichlorophenoxyacetic Acid,  
Is octyl Ester (2-Ethylhexylester) . . . . . 69.7%  
2,4-Dichlorophenoxyacetic Acid Equivalent . . . . . 46.3%

Inert Ingredients: . . . . . 30.3%  
Acid Equivalent: 4 pounds per gallon

### CAUTION

KEEP OUT OF REACH OF CHILDREN

#### Statement of Practical Treatment

If in eyes, flush eyes with plenty of water for at least 15 minutes and get medical attention; wash with soap and plenty of water.

If swallowed, induce vomiting by touching the back of the throat or give strong salt water to drink. Repeat until vomit is clear. Never induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

If on skin, wash with plenty of soap and water.

See Side Panel for Additional Precautionary Statements.

Net Contents 5 Gallons

Made in Federal Republic of Germany

BASF CORPORATION  
Agricultural Products  
PO Box 13528  
Research Triangle Park,  
North Carolina 27709-3528

With COMMENTS  
EPA Letter Dated:

NOV 1 1991

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, or the pesticide  
registered under EPA Reg. No.

at least 15 minutes and get medical

(Side Panel)

### DIRECTIONS FOR USE

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

Use BASF U-46™ D4-Ester-LV Herbicide to control 2,4-D susceptible broadleaved weeds, herbaceous perennial, woody plants including aider, coastal sage, elderberry, hazel, sagebrush, sand shinnery oak, sumac, willow field bindweed, bitterweed, croton weed, rabbit brush, blueweed, thistles and most annual broadleaved weeds in areas such as rangelands, pastures, right-of-ways, fencerows, industrial locations and in small grains and corn.

Apply sprays at low pressures (30 to 50 pounds) during warm weather when weeds or brush are well leafed out and growing actively. Lack of soil moisture may reduce control. To prepare a spray, add BASF U-46 D4-Ester-LV Herbicide to the water while filling the spray tank and mix thoroughly.

**General Weed Control:** In non-crop areas, such as fencerows, drainage ditchbanks, right-of-ways, and similar areas, use 2 to 4 pints in 100 gallons of water and wet all foliage thoroughly. It may be necessary to use a repeat treatment to control certain hard-to-kill weeds. In such cases, make a second application when regrowth is young and vigorous.

**Woody Plant Control:** To control woody plant species, susceptible to 2,4-D (listed under GENERAL DIRECTIONS) in fencerows, right-of-ways, industrial areas, drainage ditchbanks and for spot treating such species in rangeland and pastures, use 2½ to 5 pints per 100 gallons of water and wet all foliage, stems and trunks of plants to be controlled. Treat when brush and trees are well leafed out and growing actively, normally in late spring or early summer. With good growing conditions effective application can be made up to 3 or 4 weeks before frost. To prevent resprouting of cut stumps and stubs, mix 1 gallon in 25 gallons of diesel oil and wet the stumps and stubs thoroughly down to the groundline.

Observe the following intervals for Pastures and Rangeland:

- (A) A 7-day pregrazing interval for dairy cattle;
- (B) A 30-day preharvest interval for grass cut for hay; and
- (C) A preslaughter interval for meat animals of 3 days.

**Lawns, Golf Courses and Other Turf and Pasture Areas:** Use 1½ to 3 pints per acre in the amount of water needed for uniform coverage. Do not apply to newly seeded areas until grass is well established. Dichondra, creeping grasses, such as bentgrass, and legumes, such as clover, may be severely injured. Do not allow grazing of treated areas by dairy animals within 7 days after application.

(Side Panel)

**Wheat, Barley and Rye:** Use  $\frac{1}{2}$  to  $\frac{3}{4}$  pint per acre in the amount of water necessary for uniform spray distribution. Spray when grain is in full tiller stage, that is, when about 6 to 8 inches tall or until the early boot stage. Crop injury may result from application earlier than "tiller" or later than "boot" stage. Treat winter wheat only in spring when weeds are smaller and before the crop begins heading. Do not spray these crops if seeded down with legumes. For late or pre-harvest treatment to control large weeds, apply 1 to 2 pints per acre after the grain is in the "milk" to "hard dough" stage. In this case, do not feed treated straw to livestock. Do not forage or graze treated grain fields within 2 weeks after treatment with U-46 D4-Ester-LV Herbicide.

**Corn: Postemergence:**  $\frac{1}{2}$  pint per acre in the amount of water required for even distribution. Apply as soon as possible after most weeds have emerged. After corn is 8 inches tall, use drop nozzle to keep spray off corn foliage. Do not apply from tasseling to dough stage. Avoid cultivating soon after treatment when corn may be brittle. **Preemergence:** Use  $3\frac{1}{2}$  pints overall per acre and apply 1 to 3 days before corn emerges. Do not use preemergence spray on light sandy soils because of possible injury to the corn.

**PRECAUTIONARY STATEMENTS**

**Hazard to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed. May cause irritation of skin and eyes. Do not get in eyes, on skin or clothing.

) Remove and wash contaminated clothing before re-use. Do not wear contaminated shoes.

When handling this product wear chemical resistant gloves.shoes.

**Environmental Hazards**

**Nonaquatic Uses:** This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwaters.

**Groundwater Contamination:** Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

(Side Panel)

Do not apply U-46™ D4-Ester-LV Herbicide directly to, or otherwise permit to 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 mist containing it to drift onto them, since even minute 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 vegetation susceptible to 2,4-D.

Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination or plant growth. Do not contaminate irrigation ditches or water used for domestic purposes. Most legumes are usually damaged or killed. Vapors may injure susceptible plants in the immediate vicinity.

To avoid injury to desirable plants, do not store, handle or apply other agricultural chemicals with same containers or equipment used for BASF U-46 D4- Ester-LV Herbicide. Do not store near fertilizers, seeds, insecticides or fungicides.

NOTE: Do not graze treated areas with lactating dairy animals within 7 days after treatment.

**STORAGE AND DISPOSAL**

**Storage:** Do not store near other pesticides or seeds.

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate, is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Triple rinse or (or equivalent). Then offer for recycling to reconditioning, puncture and dispose of in a sanitary landfill, or by other State and local procedures.

**BE SURE THAT USE OF THIS PRODUCT CONFORMS TO ALL APPLICABLE REGULATIONS. LOCAL CONDITIONS MAY AFFECT THE USE OF HERBICIDES. STATE AGRICULTURAL EXPERIMENT STATIONS OR EXTENSION SERVICE WEED SPECIALISTS IN MANY STATES ISSUE RECOMMENDATIONS TO FIT LOCAL CONDITIONS.**

7 9 7

EPA Registration No. 7969-26  
Page 5 of 5  
Registration Standard  
September 1988  
Rev. October 3, 1991

(Side Panel)

#### 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 CORPORATION is the purchase price paid for the quantity of product involved.

EPA Reg. No. 7969-26  
EPA Est. No. 7969-WG-01

U-46™ D4 Ester LV Herbicide is a trademark of BASF AG, Ludwigshafen am Rhein, Federal Republic of Germany.

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