

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP 30 1991

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

Dear Dr. Akkari:

Subject: Label Revisions and Corrections  
U-46 D-Ester-LV Herbicide  
EPA Registration No. 7969-17  
Your Submission Dated July 15, 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) We have noted that the Precautionary Statements have been revised and are no longer appropriate in conjunction with the "Caution" signal word. In order to change the Precautionary Statements to the language on the proposed labeling, toxicity data must be submitted to the Agency to justify the change. If you feel that a change in toxicity category is appropriate, please submit the referenced data. Otherwise, rewrite the Precautionary Statements to read "Harmful if swallowed. May cause skin irritation. Avoid contact with eyes, skin and clothing" as per the label accepted on January 4, 1973.
- 2) The Precautionary Statements referenced above, the Protective Clothing statement, and the statements "Remove and wash contaminated clothing before reuse. Wash thoroughly after handling and before eating or smoking," currently within the Statement of Practical Treatment, must be relocated. They belong within the "Precautionary Statements" section directly beneath the subheading "Hazard to Humans and Domestic Animals."
- 3) Within the Statement of Practical Treatment, change the last sentence of the "If Swallowed" statement to read "Never induce vomiting or give anything by mouth to an unconscious person."

## CONCURRENCES

SYMBOL	H7505C							
SURNAME	D. KENNY							
DATE	9/27/91							

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4. Delete the statement "Pesticide, spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies" from the Storage and Disposal block. It contradicts the required statements as prescribed in the Registration Standards for this product.

A stamped copy is enclosed for your records. Please submit five (5) 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

CONCURRENCES							
SYMBOL	H7505C						
SURNAME	D. KENNY						
DATE	9/27/91						

(Front Panel)

# U-46™ D-Ester-LV HERBICIDE

## 2,4-D Low-Volatile Ester

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

**Active Ingredient:**

2,4-Dichlorophenoxyacetic Acid, Isooctyl Ester (2-Ethylhexyl Ester)	94.4%
Next Ingredients	5.6%
(2,4-D acid equivalent: 62.6% - 6 lbs per gal.)	

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

**Statement of Practical Treatment**

May be FATAL if SWALLOWED or ABSORBED through the skin. Do not get in eyes, on skin, or on clothing. Avoid breathing dust, vapor or spraymist.

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

If on skin, wash skin with soap and water.

If in eyes flush with plenty of water for 15 minutes and get medical attention.

**Protective Clothing:** When handling this product, wear chemical resistant gloves.

Remove and wash contaminated clothing before re-use. Wash thoroughly after handling and before eating or smoking.

See Side Panel for Additional Precautionary Statements.

Net Contents 1, 5, 30 or 65 Gallons

RECEIVED  
with COMMENTS  
EPA Letter Dated:

BASF CORPORATION  
Agricultural Chemicals  
Research Triangle Park,  
North Carolina 27709-3528

EPA Reg. No. 7969-17  
EPA Est. No. 7969-WG-01

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended for the pesticide  
registered under EPA Reg. No. U-46™

Herbicide is a Trademark of BASF Aktiengesellschaft,  
Ludwigshafen am Rhein, Federal Republic of Germany

(Side Panel)

### PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals. **CAUTION**

#### Environmental Hazard

Keep out of lakes, streams, or ponds. Do not apply when weather conditions favor drift from target area.

**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 high 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.

### DIRECTIONS FOR USE

#### General Classification

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

#### GENERAL INFORMATION

Use BASF U-46 D-Ester-LV-Herbicide to control 2,4-D susceptible broadleaved weeds, herbaceous perennials and woody plants including alder, 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 rangeland, pastures, rights-of-way, fencerows, industrial locations, and in small grains and corn.

Apply sprays at low pressures (30 to 50 lbs.) 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 D-Ester-LV Herbicide to the water while filling the spray tank and mix thoroughly.

## USE PRECAUTIONS

Do not apply BASF U-46 D-Ester-LV Herbicide 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 its formulations; and do not permit spray mists 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 using not less than 20 gallons/A of spray in ground equipment and not less than 3 gal/A by air. 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. 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 D-Ester-LV Herbicide.

Do not contaminate irrigation ditches or water used for domestic purposes.

## RECOMMENDED TREATMENTS

**Non-crop Areas:** In non-crop areas, such as fencerows, drainage ditch banks, rights-of-way and similar areas use 1½ to 2 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 wood plant species susceptible to 2,4-D (listed under GENERAL INFORMATION) in fencerows, rights-of-way, 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 to 4 weeks before frost. To prevent resprouting of cut stumps and stubs, mix ½ gallon in 25 gallons of diesel oil and wet the stumps and stubs thoroughly down to the groundline.

(Side Panel)

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.

Golf Courses and Other Non-Domestic Turf and Pasture Areas: Use  $1\frac{1}{2}$  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 graze dairy cattle in treated areas for 14 days after application. Remove meat animals from freshly treated areas for 7 days before slaughter. Withdrawal is not needed if 2 weeks or more has elapsed since the treatment was applied. Do not cut treated grass for hay within 30 days after application.

Wheat, Oats, Barley and Rye: Use  $\frac{1}{2}$  to  $\frac{1}{2}$  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. Treat winter wheat only in Spring when weeds are small and before the crop is in the boot stage. Do not spray these crops if seeded down with legumes. As an emergency pre-harvest treatment to control large weeds, apply  $\frac{1}{2}$  to  $1\frac{1}{2}$  pints per acre after the grain is in the dough stage. Do not feed treated straw to livestock. Do not graze for feed forage from treated fields within two weeks after treatment.

Corn: (Field, Sweet and Pop) Use  $\frac{1}{2}$  pint per acre in the amount of water required for distribution. Apply as soon as possible after most weeds have emerged. After corn is 8 inches tall, use drop nozzles to keep spray off corn foliage. Do not apply from tasseling to dough stage. Avoid cultivating soon after treatment when corn may be brittle. For preemergence treatment, use  $2\frac{1}{2}$  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. Do not forage or feed treated corn fodder for 14 days following application.

(Side Panel)

**STORAGE AND DISPOSAL**

Do not store near other pesticides or seeds.

Do not contaminate water, food or feed by storage, disposal or cleansing of equipment. Open dumping is prohibited.

Pesticide, spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

**Container Disposal:** Reseal containers and offer for reconditioning (more than 30 gallon) or triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary land fill, or by other State and local procedures.

**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.

BE SURE THAT YOUR USE OF THIS PRODUCT CONFORMS TO ALL APPLICABLE REGULATIONS. LOCAL CONDITIONS MAY AFFECT THE USE OF HERBICIDES. STATE AGRICULTURAL AUTHORITIES IN MANY STATES ISSUE RECOMMENDATIONS TO FIT LOCAL CONDITIONS.

**CONDITIONS OF SALE AND WARRANTY**

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application of all which are beyond the control of BASF CORPORATION or the Seller. All such risks shall be assumed by the Buyer.

BASF CORPORATION warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. In no case shall BASF or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of BASF Corporation.