

## 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 D4 Herbicide  
EPA Registration No. 7969-40  
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) Within the "Precautionary Statements" section, directly beneath the subheading "Hazards to Humans and Domestic Animals," add the following:

"Harmful if swallowed. May cause skin and eye irritation. Do not get in eyes, on skin or on clothing. Remove and wash contaminated clothing before re-use. Do not wear contaminated shoes. When handling this product, wear chemical resistant gloves."

Delete these statements from the Statement of Practical Treatment.

- 2) 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."

- 3) On the rate chart for Amount of U-46 D4 per Acre, change the number of Gallons of Spray per Acre for air application on small grains to 3 to 10 gallons.

- 4) Make the following changes under the Environmental Hazards:

a) Under Aquatic Uses, change the sentence "Do not apply...beneath the high water mark" to read "...beneath the high water mark except as specified on this label."

## CONCURRENCES

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

278

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

b) Under the Nonaquatic Uses, change the sentence "Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes)" to read "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

5) Add the statement "Do not contaminate water, food or feed by storage or disposal" to the Storage and Disposal block.

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						

378

EPA Registration No. 7969-40  
Page 1 of 6  
Registration Standard  
September 1988  
Rev. July 2, 1991

(Front Panel)

## U-46™ D4

### Herbicide

For selective control of many broadleaved weeds in certain crops and non-crop areas

2,4-D Non-volatile Amine Salt

Active Ingredient:

Dimethylamine Salt of

2,4-Dichlorophenoxyacetic acid . . . . . 49.6%

Inert Ingredients . . . . . 50.4%

Acid Equivalent: 4 Pounds per Gallon (41.2%)

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
SEP 30 1991

### CAUTION

Harmful if swallowed. May cause skin and eye irritation.

KEEP OUT OF REACH OF CHILDREN

Statement of Practical Treatment

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

7969-40

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.

Do not get in eyes on skin or on clothing. If in eyes, flush eyes with plenty of water for at least 15 minutes and get medical attention.

If on skin wash with soap and plenty of water. Remove and wash contaminated clothing before re-use. Do not wear contaminated shoes.

When handling this product, wear chemical resistant gloves.

See side panel for additional precautionary statements.

Net Contents 1 gal.

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

(Side Panel)

**DIRECTIONS FOR USE**

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

The lower dosages will usually be satisfactory only for young, succulent growth of sensitive species such as mustard. For less sensitive species and under conditions where kill is difficult, use the higher dosages.

**MIX ONLY WITH WATER.** Unless otherwise directed, use the recommended amount of U-46 D4 Herbicide in the amount of water needed for even distribution. In mixing sprays, add half the water to the tank, then add the U-46 D4 with agitation, and finally the balance of the water with continued agitation. Apply at low pressure (30 to 50 pounds) during warm weather when weeds are young and growing actively.

**FOR TREATING SMALL AREAS:** One tablespoonful in 1½ gallons of water is about equal to one quart in 100 gallons.

**GENERAL WEED CONTROL:** In vacant lots, on roadsides and along fence rows, use enough spray to wet all foliage. Two quarts of U-46 D4 in 100 gallons of water will control most young weeds; however, 3 quarts may be necessary for more resistant weeds. Deep-rooted perennial weeds, such as bindweed and Canada thistle may require repeated applications as new growth appears.

**TURF AND GRASS PASTURE WEED CONTROL:** For lawns, pastures and other turf areas, use 2 to 3 quarts of U-46 D4 per acre. **NOTE:** Do not use on lawns of Dichondra and creeping grasses such as bent, except for spot spraying, nor on freshly seeded turf until grass has become well established. Dichondra and most legumes (clovers) are usually damaged or killed. Do not graze treated areas by dairy animals within 7 days after application.

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.

(Side Panel)

**WEED CONTROL IN CROPS:** (see table for other details)

**SMALL GRAINS** (wheat, barley, rye, oats): Spray when grain is in full tiller stage (4 to 8 inches tall) but weeds are still small. Crop injury may result from application earlier than "tiller" or later than "boot" stage. Late or pre-harvest treatment to control large weeds may be effective under certain conditions such as adequate soil moisture and succulent weed growth. Apply 1 to 2 pints of U-46 D4 per acre after grain is in the "dough" stage. Do not use on grain interplanted with a legume, particularly alfalfa and sweet clover, unless injury to the legume can be tolerated.

**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. When late or pre-harvest treatment is used, do not feed treated straw to livestock.

**CORN:** Preemergence - Apply to soil 3 to 5 days after planting but before corn emerges. Do not treat very light, sandy soil. Emergence - For broadleaved weeds, use one pint just as corn plants are breaking ground. Postemergence - On corn over 8 inches tall, use drop nozzles to keep spray off corn foliage. Do not apply from tasseling to dough stage.

**GRAIN SORGHUMS:** Treat when 6 to 12 inches tall and secondary roots are well established. Use drop nozzles when crop is over 10 inches tall.

**RICE:** Treat 4 to 8 weeks after emergence. Where flooded, treat between 7 and 9 weeks after seeding, when plants have emerged above water and leaves are standing erect.

**SUGAR CANE:** Apply as preemergence or postemergence spray up to layby. Overall application gives best results; however, row application can be made along with usual cultivation program. For best grass control use BASFAPON™ grass herbicide in addition to U-46 D4. Local conditions may affect the use of herbicides. State agricultural experiment station or extension service weed specialists in many states issue recommendations to fit local conditions.

**SOIL TREATMENT FOR PERENNIAL WEED CONTROL:** For certain deep-rooted perennial weeds, including leafy spurge, Russian knapweed, hoary cress, and swamp smartweed (tanweed), in non-crop areas such as fencerows, drainage ditch banks, industrial areas, rights-of-way and similar areas, use 2 to 4 gallons of U-46 D4 per acre. Apply in late fall as recommended by local agricultural experiment stations or extension service weed specialists. Where annual rainfall is less than 6 inches, irrigation after spraying may give better results.

(Side Panel)

AMOUNT OF U-46 D4 PER ACRE Read Complete Directions Before Using			
Crop (See detailed directions above)	For Average Conditions	For Dry Conditions in Western States*	Gallons of Spray per Acre
Small Grain: Ground Application Air Application	½ to 1 pint 1 pint	1 to 2 pints 1 to 2 pints	5 to 25 1 to 10
Corn: Preemergence Postemergence	1 to 2 quarts ½ to 1 pint	--- 1 pint	10 to 20 5 to 10
Grain Sorghums	1 pint	1½ to 2 pints	5 to 10
Rice	1 to 2½ pints	2 to 3 pints	5 to 10
Sugar Cane	1 to 2 quarts	---	5 to 25
* Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington & Wyoming.			

WEED LIST

U-46 D4 IS RECOMMENDED FOR CONTROLLING THE FOLLOWING:

alligatorweed	mustards	thistles
dandelion	peppergrass	vetch
docks	pigweed	whitetop
fanweed	plantains	wild carrot
goldenrod	ragweed	wild morning glory
lambsquarters	shepherdspurse	wild radish
musk thistle	tarweed	

and many other broadleaved weeds without injury to most grasses. Use on lawns, golf courses, parks, playgrounds and other recreational areas; along highways and railroads rights-of-way; on air-fields, drainage ditch banks, pasture lands, around farm buildings, and in field crops such as listed on this label.

(Side Panel)

**PRECAUTIONARY STATEMENTS**

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

**Environmental Hazards**

**Aquatic 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 intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

**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 or wetlands (swamps, bogs, marshes, and potholes). 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.

**Other:** Do not apply U-46 D4 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 U-46 D4 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 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 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.

EPA Registration No. 7969-40  
Page 6 of 6  
Registration Standard  
September 1988  
Rev. July 2, 1991

(Side Panel)

To avoid injury to desirable plants, do not store, handle or apply other agricultural chemicals with the same containers or equipment used for U-46 D4.

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.

Be sure that use of this product conforms to all applicable regulations.

) Apply only as specified on the label.

STORAGE AND DISPOSAL

Storage: Do not store near other pesticides or seeds.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, 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.

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. 7969-40

EPA Est. No. 7969-WG-01

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