

HELENA CHEMICAL COMPANY

## CORPORATE OFFICE

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6075 Poplar Avenue  
Memphis, Tennessee 38119  
Telephone: 901/761-0050  
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February 12, 1993

Joanne I. Miller, Product Manager 23  
U. S. Environmental Protection Agency  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 M Street, S.W.  
Washington, D.C. 20460

RE: WEED RHAP LV-5D HERBICIDE, (BARRAGE),  
EPA REG. NO. ~~5905-504~~  
2,4-D EXPOSURE REDUCTION MEASURES

Dear Ms. Miller:

I, being an authorized representative of Helena Chemical Company certify that all containers of Weed Rhap LV-5D Herbicide, (Barrage) EPA Reg. No. 5905-504, produced by October 23, 1993 will bear revised labeling in accordance with the revised labeling required for Task Force technical and manufacturing-use products. I further certify that all containers of said product sold or distributed by this company by April 15, 1994 will bear revised labeling in accordance with the revised labeling required for Task Force technical and manufacturing-use products.

Sincerely,

HELENA CHEMICAL COMPANY



Judy Oldham  
Manager, Registration Services

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encs.

# BARRAGE

**LOW VOLATILE HERBICIDE**

**ACTIVE INGREDIENT:**

Isooctyl Ester of 2,4-Dichlorophenoxyacetic Acid ..... 78.1%

**INERT INGREDIENTS:** ..... 21.9%

**TOTAL** ..... 100.0%

Equivalent to 51.8% 2,4-D Acid or 4.7 lb./gal.  
Isomer specific by AOAC Method 6.D01-5 (12th Ed.)

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**KEEP OUT OF REACH OF CHILDREN**

## CAUTION - CAUCION

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

**SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**

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EPA REG. NO. 5905-504  
EPA EST. NO.

**NET CONTENTS:**

**MANUFACTURED BY  
HELENA CHEMICAL COMPANY  
MEMPHIS, TN 38119**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Avoid contact with skin, eyes, or clothing. Harmful if swallowed. Avoid inhaling vapor or spray mist. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

When mixing, loading, or applying this product or repairing or cleaning equipment used with this product, wear eye protection (face shield or safety glasses), chemical-resistant gloves, long-sleeved shirt, long pants, socks, and shoes. For aerial applicators in enclosed cockpits and applicators applying this product from a tractor that has a completely enclosed cab, eye protection is not required.

Wash hands, face, and arms with soap and water as soon as possible after mixing, loading, or applying this product. Wash hands, face, and arms with soap and water before eating, smoking, or drinking. Wash hands and arms before using toilet. After work, remove all clothing and shower using soap and water. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first. Clothing must be kept and washed separately from other household laundry. Remove saturated clothing as soon as possible and shower.

If this container contains over 1 gallon and less than 5 gallons, persons engaged in open pouring of this product must also wear coveralls or a chemical-resistant apron.

If this container contains 5 gallons or more in capacity, a mechanical system (probe and pump) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

### STATEMENT OF PRACTICAL TREATMENT

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF SWALLOWED:** Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF IN EYES:** Flush with plenty of water. Get medical attention if irritation persists.

**IF INHALED:** Move victim to fresh air. Give artificial respiration if needed. Get medical attention.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water. Do not apply when weather conditions favor drift from target area. Spray equipment used in applying this product should be thoroughly cleaned before using for any other purpose. Use repeated flushing with soap and warm water or suitable chemical cleaner. It is best to use a separate sprayer for application of insecticides and fungicides. Do not contaminate water by cleaning of equipment or disposal of washwaters. This product will kill or seriously injure many desirable forms of vegetation. Do not apply directly to flowers, fruits, vegetables, grapes, ornamentals, cotton or other desirable plants. Do not use when there is hazard from drifting mists. (Coarse sprays are less likely to drift.) Vapors from this product may injure susceptible plants in the immediate vicinity. Avoid contamination of water used for domestic purposes and irrigation purposes. Excessive amounts of this product in the soil may temporarily inhibit seed germination and plant growth.

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water except as specified on this label. 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**

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

**CHEMIGATION PROHIBITION**

Do not apply this product through any type of irrigation system.

### **AGRICULTURAL USE REQUIREMENTS**

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.**

**For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:**

**--long-sleeved shirt and long pants**

**--chemical-resistant gloves such as butyl or nitrile or barrier laminate**

**--shoes and socks**

**--protective eyewear (face shield or safety glasses)**

**For Turf Sites (excluding sod farms): Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.**

**Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings must be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: CAUTION: Area treated with 2,4-D Amine Herbicide on (date of application). Do not enter without appropriate protective clothing for 12 hours. (Insert here Statements of Practical Treatment as under Precautionary Statements.)**

## STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly.

**STORAGE:** Do not store below temperature of 0°F. If frozen, warm to 40°F and redissolve before using by rolling or shaking container. This product can be stored in an unheated building. Store in a safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

**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:

**Metal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

This product can reach groundwater as a result of mixing and loading. To minimize groundwater contamination from spills during mixing, loading, and cleaning of equipment, take the following steps:

**Mixing and Loading:** When mixing, loading, or applying this product, wear personal protective clothing listed under the Hazards to Humans and Domestic Animals section of this label.

The mixing and loading of spray mixtures into the spray equipment must be carried out on an impervious pad (i.e., concrete slab, plastic sheeting) large enough to catch any spilled material. If spills occur, contain the spill by using an absorbent material (e.g., sand, earth, or synthetic absorbent). Dispose of the contaminated absorbent material by placing in a plastic bag and following disposal instructions on this label.

Triple rinse empty containers and add the rinsate to the mixing tank.

**Cleaning of Equipment:** When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources.

### WHERE TO USE

**BARRAGE** is used to control broadleaf weeds in cereal crops, corn, sorghum, weeds, and brush in rangeland, pastures, rights-of-way, similar noncrop uses, and for aquatic weed control.

### WEEDS CONTROLLED

**BARRAGE** will kill or control the following as well as many other noxious plants susceptible to 2,4-D:

Alligatorweed	Chicory	Locoweed	Sagebrush
Arrowhead	Cocklebur	Mexicanweed	Shepherdspurse
Artichoke	Coffeebean	Morningglory	Smartweed
Bindweed (hedge, field, and European)	Creeping jenny	Mustard	Sowthistle
Bitter wintercress	Curly indigo	Nutgrass	Stinkweed
Boxelder	Duckweed	Parrotfeather	Sumac
Buckhorn	Elderberry	Pennywort	Sunflower
Bull thistle	Goldenrod	Pigweed	Virginia creeper
Bulrush	Ground ivy	Plantain	Water hyacinth
Burdock	Hemp	Poison ivy	Water lily
Bur ragweed	Hoary cress	Pokeweed	Water primrose
Buttercup	Honeysuckle	Povertyweed	Wild garlic
Canada thistle	Indigo	Puncturevine	Wild lettuce
Catnip	Ironweed	Purslane	Wild onion
Chickweed	Jimsonweed	Rush	Wild radish
	Lambsquarters	Russian thistle	Willow

### DIRECTIONS FOR USE

Add the recommended amount of product to about one-half the volume of water to be used in spraying. Mix well, then add remaining water and mix until spray mixture is uniform. Agitate thoroughly while spraying to assure uniform emulsion. Best results are obtained when applications are made while the plants are well-leafed and actively growing.

**ON FALL-PLANTED WHEAT, OATS, AND BARLEY** - Use 7 to 10 fluid ounces of product in 5 to 10 gallons of water to cover one acre. Apply in early spring when weeds are small and before crop has reached the boot stage.

**ON SPRING-PLANTED WHEAT, OATS, AND BARLEY** - Use 7 fluid ounces of product in 5 to 10 gallons of water to cover one acre. Apply after the fully tillered stage, except during the boot to dough stage.

**DO NOT** forage or graze treated grain fields within two weeks after treatment with 2,4-D. **DO NOT** feed treated straw to livestock.

**ON CORN AND SORGHUM** - Use 7 fluid ounces of product in 5 to 10 gallons of water to cover one acre when weeds are in active growth. Local climatic conditions determine when treatment should be made. Best results are usually obtained when weeds are small and corn is 4 to 18 inches tall. **DO NOT** apply from tasseling to dough stage. Treat sorghum when 4 to 12 inches tall. Use drop nozzles when either crop is over 10 inches tall.

**FOR PREEMERGENCE ON CORN** - Use 26 to 51 fluid ounces of product in 5 to 10 gallons of water per acre. Use the higher rate on heavy soils. **DO NOT** use on sandy soils. Plant corn as deep as feasible.

**ON TURF** - Depending on type of weeds and stage of growth, use 14 to 42 fluid ounces of product and enough water to give sufficient coverage to one acre on established stands of perennial grasses. **DO NOT** use on creeping grasses such as bentgrass except for spot spraying. Newly seeded turf should not be treated until after the second mowing, and the lower dosage rate should be used. Possible injury may occur to Dichondra and clover.

**NOTES FOR ALL TURF SITES:** (excluding sod farms)

Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.

The maximum number of broadcast applications per treatment site is 2 per year.

When using this product, wear long-sleeved shirt, long pants, socks, shoes, and chemical-resistant gloves.

After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

**ON RANGELAND, PASTURES, AND GENERAL WEED CONTROL** - Use 14 to 56 fluid ounces of product in sufficient water to give good coverage to one acre, depending on type of weeds and stage of growth. Use only on established stands of perennial grasses. Keep dairy animals off treated areas for 7 days. Do not cut grass for hay for 30 days after treatment. Do not slaughter for meat animals for 3 days after treatment.

**FOR AQUATIC WEEDS IN LAKES, PONDS, AND DRAINAGE DITCHBANKS** - Use 35 to 63 fluid ounces of product in 50 to 100 gallons of water and apply to one acre. Application should be made when leaves are fully developed above waterline and plants actively growing. Treatment of dense weed areas can result in oxygen loss from decomposition of dead weeds. This loss can cause fish suffocation. Therefore, when treating water areas, aquatic weed control should proceed stepwise - in bands from the shore outwards. Treat only 1/3 to 1/2 of the water area every 10-14 days.

Perennial and other hard-to-control weeds may require a repeat application to give adequate control.

**CAUTION**

Do not apply this product to susceptible broadleaf plants that are desirable such as cotton, soybeans, tomatoes, grapes, clover, or ornamentals. Excessive amounts of this product in the soil may temporarily inhibit seed germination and all plant growth.



**CONDITIONS OF SALE - LIMITED WARRANTY  
AND LIMITATIONS OF LIABILITY AND REMEDIES**

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man, or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against the Company exceed the price of the product which causes the alleged loss, damage, injury, or other claim. The Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income.

The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability, and remedies.