

HELENA CHEMICAL COMPANY



## CORPORATE OFFICE

February 12, 1993

Suite 500  
6075 Poplar Avenue  
Memphis, Tennessee 38119  
Telephone: 901/761-0050  
Telex: 8105911595

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 LOW VOLATILE GRANULAR D HERBICIDE,  
EPA REG. NO. 5905-507  
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 Low Volatile Granular D Herbicide, EPA Reg. No. 5905-507, 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

A handwritten signature in cursive script that reads "Judy Oldham".

Judy Oldham  
Manager, Registration Services

jo  
encs.

# WEED RHAP LOW VOLATILE GRANULAR D HERBICIDE

2,4-D LOW VOLATILE

**ACTIVE INGREDIENT:**

2-Ethylhexyl Ester\* of 2,4-Dichlorophenoxyacetic Acid ..... 28.4%\*\*

**INERT INGREDIENT:** ..... 71.6%

TOTAL ..... 100.0%

\*\*Equivalent to 18.8% of 2,4-D AE by weight

Isomer specific by AOAC Method 6.275 (13th Ed.), 1980.

\*An isooctyl ester

---

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 Side Panel for Additional Precautionary Statements.

---

EPA REG. NO. 5905-507  
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 dust has settled.

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.

### GENERAL INFORMATION

Weed Rhap Low Volatile Granular D is formulated by impregnating selected mineral granules with low volatile 2,4-D ester, to minimize drift. The 8/16 and 15/30 mesh sizes are intended for use in the control of certain water weeds which infest lakes and ponds. The 24/48 mesh size is recommended for the control of certain weeds which infest turf grass and crops such as corn, strawberries, and cranberries.

Avoid application to susceptible plants, because this product may injure plants such as cotton, soybeans, tomatoes, beans, fruit trees, and ornamentals. DO NOT allow particles or dust to drift onto desirable crops or plants.

Although this product contains a low volatile ester, it should be used with caution where spreading vapors can damage nearby susceptible plants.

It is best to use separate equipment for applying 2,4-D granules. Should the same equipment be used for applying other materials, however, clean it thoroughly before such use to remove all traces of 2,4-D particles or dust.

### DIRECTIONS FOR USE

**IN LAKES AND PONDS:** To control milfoil, hornwort, bladderwort, fanwort, pondweed, cattail, and waterlilies infesting lakes and ponds, apply granules at the rate of 1 to 1-1/2 lbs. per 430 sq. ft. (10' x 43') of water surface or 100 to 150 lbs. per acre. Distribute the granules evenly over the quiet water surface infested with weeds, using a mechanical spreader attached to a boat. The granules settle to the water bottom around the roots and stems. Effects on water weeds will be evidenced in 4 to 10 weeks and control may be expected for a year or longer. In tropical regions use 25 to 50 percent more granules. Consult your Public Water Agency before use.

**DO NOT APPLY** to more than 1/3 to 1/2 of a lake or pond in any one month, because excessive decaying vegetation may deplete oxygen content of water, thus killing fish.

**ORNAMENTAL TURF** such as lawns, golf courses, cemeteries, and parkways: To control wild onion and broadleaved weeds such as dandelion, plantain, ivy, bitterweed, and dogfennel, apply 10 to 15 lbs. of granules per acre in early spring when shoots are young and actively growing, using a mechanical spreader. Repeat application in one month to control skipped spots. Weeds over 6 inches tall are sometimes resistant and should be sprayed with Weed Rhap A-4D or Weed Rhap Low Volatile 4D.

### 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 dust has settled.

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.

**DO NOT USE** on bentgrass, St. Augustine grass, dichondra, carpetgrass, or newly plugged or seeded turf.

**IN CORN:** For pre-emergence application to aid control of annual grasses such as large and small foxtail, crabgrass, and barnyardgrass; and broadleaved weeds such as smartweed, sunflower, wild mustard, cocklebur, bindweed, dandelion, and morningglory, apply as follows: With a granule applicator designed to apply a band over the planted row, apply 3 to 3-1/4 lbs. per acre in a band 14 inches wide when rows are 42 inches apart. If the planting varies from this standard band width, or row separation, the granules should be applied proportionally. Be sure the granules are allowed to stay on top of the soil, preferably, they should be applied behind the packer wheel at planting time. Be sure the corn is planted 2-1/2 to 3 inches deep, as damage may occur to shallow planted corn. **DO NOT** apply on sandy soil. (For Corn Belt Only).

**IN STRAWBERRIES:** For pre-emergent application to control weeds such as crabgrass, foxtail, barnyardgrass or wintergrass, horseweed, bullnettle, carelessweed, morningglory, dock, smartweed, jimsonweed, and dandelion: Apply at the rate of 12 lbs. per acre over the planted area. Application should be made broadcast using a spreader-seeder previously adjusted to deliver 12 lbs. per acre. Application should be made only in the dormant season (after first fall frost or before new leafing in spring).

**IN CRANBERRIES:** For pre-emergent application to control annual broadleaved weeds in bearing cranberry marshes, apply at a rate of 10 to 20 lbs. per acre (2 to 4 lbs. 2,4-D equivalent per acre). Application should be made broadcast in the spring after removal of the winter flood from the dormant vines. Weeds controlled are common ragweed, sticktight, teathumb, smartweed, Northern Saint Johnswort, and common species of annual smartweed. Careful distribution of the granules is necessary if adequate control is to be obtained. Granules may also be distributed on ice over plants prior to spring thaw (for Wisconsin area).



**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.