

5905-508

07/01/2008

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:
5905-508

Date of Issuance:
- 1 JUL 2008

NOTICE OF PESTICIDE:
 Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:
Weed Rhap LV-6D

Name and Address of Registrant (include ZIP Code):

Helena Chemical Company
225 Schilling Boulevard, Suite 300
Collierville, Tennessee 38017

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is reregistered in accordance with FIFRA sec. 4(g)(2)(C) provided that you:

- 1) Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
- 2) To the label add "Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition, et. al. v. EP, C01-0132C, (W.D. WA) For further information, please refer to <http://www.epa.gov/espp/wtc/>."

Signature of Approving Official:

Joanne I. Miller

Joanne I. Miller
Product Manager 23
Herbicide Branch
Registration Division (7505P)

Date:

1 JUL 2008

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3) To the Warranty section add "to the extent consistent with applicable law" in front of "the company makes no other" and "the exclusive remedy".

4) Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to include the following: "Harmful if absorbed through skin. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

5) The following chemical-resistant glove text must be deleted from the PPE section of the label: "when applying postharvest dips or sprays to citrus, applying with any handheld nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate."

6) Delete the following text from the Environmental Hazards section of the label: "except as noted on appropriate labels".

7) Replace the last two sentences in the Non-Agricultural Use Requirements box with the statement "Do not enter or allow people (or pets) to enter the treated area until sprays have dried."

8) Per the product chemistry review, it is recommended that the subheading "Storage" be changed to "Pesticide Storage."

9) Directions for Use

- Under both **Cereal Grains** sections, correct the typographical error (underlined) in the sentence "Limited to one application to crop cycle."

- Under the **Cereal Grains** and **Corn** sections, the postharvest rate for treatment of wild garlic (up to 2 quarts) exceeds maximum rate for fallowland (2.0 lb a.e. per acre per application). This rate must not exceed 45 ounces per acre per application.

- Under the restrictions and limitations for use on **Grasses in CRP areas**, add the same postemergence restrictions which appear under the Pasture and Rangeland restrictions and limitations section.

- Under the **Pasture and Rangeland** section, revise the maximum rate for susceptible annual and biennial broadleaf weeds to not exceed 1.0 lb a.e. per acre per application.

- Under the restrictions and limitations for **Fallowland**, revise the statement "Plant only labeled crops within 29 days after application" to read "Only labeled crops can be planted within 30 days of application."

- Under the restrictions and limitations for **Non-Cropland**, revise the text "Maximum of 48 ounces per acre per application" to read "Maximum of 45 ounces per acre per application."

- The **Weed Control in Newly Sprigged Coastal Bermuda Grass** section, must include the limitations and restrictions for ornamental turf.

- The **Control of Southern Wild Rose** section, must include the limitations and restrictions for non-cropland areas.

-Move the Agricultural Use Requirements and Non-Agricultural Use Requirements boxes from the Precautionary Statements section to the Directions for Use section.

-Immediately after the heading "Directions for Use" add "It is a Violation of Federal Law to Use This Product in a Manner Inconsistent with Its Labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers maybe in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation."

10) Assure when labels are printed that in the ingredient declaration that the percentage of active ingredient, other ingredients and the total percentage are aligned on the same margin.

Submit one copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov.

WEED RHAP® LV-6D

2,4-D LOW VOLATILE HERBICIDE

ACTIVE INGREDIENT:

2-Ethylhexyl Ester of 2,4-Dichlorophenoxyacetic Acid89.5%

INERT INGREDIENTS:10.5%

TOTAL100.0%

Equivalent to 59.4% of 2,4-Dichlorophenoxyacetic acid or 5.6 lbs./gal.*

KEEP OUT OF REACH OF CHILDREN

CAUTION

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.

FIRST AID

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor immediately for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Have a person sip a glass of water if able to swallow.
- Do not give anything to an unconscious or convulsing person.

IF IN EYES:

- Hold eyelid open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor immediately for treatment advice.

IF INHALED:

- Move victim to fresh air.
- If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency, call ChemTrec at 1-800-424-9300.

SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 5905-508 NET CONTENTS:
EPA EST. NO.

**MANUFACTURED FOR
HELENA CHEMICAL COMPANY
225 SCHILLING BOULEVARD, SUITE 300
COLLIERVILLE, TENNESSEE 38017**

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Disclaimer: Always refer to the label on the product before using Helena or any other product.

ACCEPTED
with **COMMENTS**
In EPA Letter Dated:
1 JUL 2008
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

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SPECIMEN LABEL

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators, flaggers, and other handlers must wear:

- long-sleeved shirt and long pants,
- shoes and socks, plus
- chemical resistant gloves, such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton when applying postharvest dips or sprays to citrus, applying with any handheld nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.
- Chemical resistant apron when applying postharvest dips or sprays to citrus, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate

See engineering controls for additional requirements.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls:

Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product may be toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark except as noted on appropriate labels. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

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.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

CHEMIGATION PROHIBITION

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required 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, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective Eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.

DIRECTIONS FOR USE

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required 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 is:

- Coveralls
- Chemical-resistant gloves made of any water-proof material,
- Shoes plus socks

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

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

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Droplet Size

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a Coarse or coarser spray, apply only as a Coarse or coarser spray (ASAE standard 572) or volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

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SPECIMEN LABEL

When applying sprays that contain 2,4-D mixed with other active ingredients that require a Medium or more fine spray, apply only as a Medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a Medium spray, leave one swath unsprayed at the downwind edge of the treated field.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetable stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

2,4-D esters may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. 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 the 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.

RETURNABLE - REFILLABLE CONTAINER (Drum):

After use, return the container to the point of purchase or designated locations. This container must only be filled with **WEED RHAP® LV-6D**. **DO NOT RE-USE THIS CONTAINER FOR ANY OTHER PURPOSE.** Prior to refilling, inspect thoroughly for damage such as cracks, punctures, abrasions, and damaged or worn out threads on closure devices. Do not refill or transport damaged or leaking containers. Check for leaks after refilling and before transportation. If the container is not being refilled, return to the point of purchase.

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: 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 away from wells and other water sources.

GENERAL INFORMATION

Performance of this product may be affected by local conditions, crop varieties, and application method. User should consult local extension service, agricultural experiment station, or university weed specialists, and state regulatory agencies for recommendations in your area.

SPECIMEN LABEL

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Best results are obtained when product is applied to young succulent weeds that are actively growing. Application rates lower than recommended will be satisfactory on susceptible annual weeds. For perennial weeds and conditions such as the very dry area of the western states, where control is difficult, the higher recommended rates should be used. When product is used for weed control in crops, the growth stage of the crop must be considered.

Some plants and weeds, especially woody varieties, are difficult to control and may require repeat applications. Application rates should be 2 to 10 gallons of total spray by air or 5 to 25 gallons by ground equipment unless otherwise directed. In either case, use the same amount of 2,4-D recommended per acre. For crop uses, do not mix with oil, surfactants, or other adjuvants unless specifically recommended on label. To do so may reduce herbicide's selectivity and could result in crop damage.

Aerial application should be used only when there is no danger of drift to susceptible crops. Many states have regulations concerning aerial application of 2,4-D formulations. Consult local regulatory authorities before making applications. Although this product is a low volatile formulation, at temperatures above 95°F vapors may damage susceptible crops growing nearby.

Because coarse sprays are less likely to drift than fine, do not use equipment (such as hollow cone small orifice nozzles) or conditions (such as high pressure) that produce such sprays.

Product should not be allowed to come into contact with desirable, susceptible plants such as beans, cotton, fruit trees, grapes, legumes, ornamentals, peas, tomatoes, and other vegetables. Product should not be used in greenhouses. Excessive amounts of this product in the soil may temporarily inhibit seed germination and all plant growth.

If stored below freezing, it may be necessary to warm product to 40°F and agitate before using. This does not affect the efficiency of the product.

Spray equipment used to apply 2,4-D should not be used for any other purpose until thoroughly cleaned with a suitable chemical cleaner.

Spray Preparation: Add the recommended amount of product to approximately one-half the volume of water to be used for spraying. Agitate well, then add the remainder of the water. Continue agitation during application until spray tank is empty.

Use in Liquid Nitrogen Fertilizer: Product may be combined with liquid nitrogen fertilizer suitable for foliage application on corn, grass, pastures, or small grains in one operation. Use product according to directions on this label for those crops. Use liquid fertilizer at rates recommended by supplier or extension service specialist. Mix the product and fertilizer according to the following instructions:

Fill the spray tank approximately 1/2 full with the liquid fertilizer. Add the product while agitating the tank. Add the remainder of the liquid fertilizer while continuing to agitate. Apply immediately maintaining agitation during application until tank is empty. **DO NOT APPLY DURING COLD (NEAR FREEZING) WEATHER.** Spray mixture must be used immediately and may not be stored.

WHERE TO USE

This product is used to control broad-leaved weeds in cereal crops, corn, potatoes, soybeans, sorghum, weeds, and brush in rangeland, pastures, rights-of-way, and similar noncrop uses.

WEEDS CONTROLLED

Product will kill or control the following in addition to many other noxious plants susceptible to 2,4-D:

Disclaimer: Always refer to the label on the product before using Helena or any other product.

SPECIMEN LABEL

Alder	Florida pusley	Puncturevine
Alfalfa	Frenchweed	Purslane
American lotus	Galinsoga	Rabbitbrush
	Goastbeard	Ragweed
Artichoke, Jerusalem	Goldenrod	Rape, wild
Aster	Goosefoot	Russian thistle
Austrian fieldcress	Ground ivy	Sagebrush
Beggartick	Gumweed	Salsify
Biden	Halogeton	Sand shinnery oak
Bindweed, hedge	Hawkweed	Shepherd's-purse
Bindweed, field	Healall	Sicklepod
Bindweed, European	Hemp	Smartweed*
Bitter wintercress	Henbit	Sneezeweed
Bitterweed	Hoary cress	Southern wild rose
Blackeyed susan	Honeysuckle	Sowthistle
Blessed thistle		Spanishneedles
Blue lettuce	Indiana mallow	St. Jonhsonwort
Blueweed, Texas	Indigo	Starthistle
Boxelder	Ironweed	Stinging needle
Broomweed	Jewelweed	Stinkweed
Buckbrush	Jimsonweed	Sumac
Buckhorn	Klamathweed	Sunflower
Buckwheat, wild	Knotweed	Sweetclover
Bullthistle	Kochia*	Tansymustard
Bur-ragweed	Ladysthumb	Tansyragwort
Burdock	Lambsquarter	Tanweed
Burhead	Loco, big bend	Tarweed
Buttercup	Locoweed	Thistles
Catnip	Lupine	Toadflax
Canada thistle	Mallow, Venice	Tumbleweed
Carpetweed	Manzanita	Velvetleaf
Catnip	Marijuana	Vervain
Chamise	Many-flowered Aster	Vetch
Cherokee rose	Marshelder	Virginia creeper
Chickweed	Mexicanweed	Vetch
Chicory	Milkvetch	Wild buckwheat
Cinquefoil	Morningglory	Wild carrot
Coastal restem Sage	Musk thistle	Wild garlic*
Cockle	Mustard	Wild lettuce
Cocklebur	Nettle	Wild mustard
Coffeebean	Nutgrass	Wild onion*
Coffeeweed	Orange hawkweed	Wild parsnip
Common sowthistle		Wild radish
Corn flower	Parsnip	Wild rape
Coyotebrush	Pennycress*	Wild strawberry
Creeping jenny	Pennywort	Wild sweet potato
Croton	Peppergrass	Willow
Curly indigo	Pepperweed	Witchweed
Dandelion	Pigweed (hybrid)*	Wormweed
Devil's-claw	Plantains	Yellow rocket
Dogbane	Poison-hemlock	Yellow star thistle
Dogfennel	Poison ivy*	and many other
Elderberry	Pokeweed	broadleaf weeds
Fanweed	Poorjoe	
Fiddleneck	Povertyweed	

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SPECIMEN LABEL

Fleabane (daisy) Prickly lettuce
Flixweed Primrose

Some of these species may require repeat applications and/or use of higher rate recommended on this product label even under ideal conditions for application. Control of pigweeds in the High Plains area of Texas and Oklahoma may not be satisfactory with this product.

* Partially controlled.

CROPS:

SPECIFIC USE DIRECTIONS

**CEREAL GRAINS (Not Underseeded with a Legume)
Barley, Rye, Wheat**

WEEDS IN CROPS	AMOUNT OF WEED RHAP LV-6D PER ACRE* (Average Conditions)	AMOUNT OF WEED RHAP LV-6D PER ACRE (Dry Conditions as in Western States**)	DIRECTIONS FOR USE
Annual and biennial broadleaf weeds Perennial broadleaf Weeds Preharvest	1/3 to 2/3 pints 2/3 pints 2/3 pints	2/3 to 1-1/3 pints 5/6 to 1-1/3 pints	Do not apply WEED RHAP LV-6D to grain in the seedling stage. Spray when weeds are small after grain begins tillering but before boot stage (usually 4 to 8 inches tall). Do not apply before the tiller stage nor from early boot through milk stage. To control large weeds that will interfere with harvest or to suppress perennial weeds, preharvest treatment can be applied when the grain is in the dough stage. Best results will be obtained when soil moisture is adequate for plant growth and weeds are growing well.
For Control of Wild Garlic and Wild Onion in Wheat and Barley	2/3 to 1-1/3 pints		Since these rates may injure the crop, do not use unless possible crop damage is acceptable. For the higher rates on spring wheat and barley, consult your local State Agricultural Experiment Station or Extension Service weed specialist for recommendations or suggestions to fit local conditions.
For Control of Wild Garlic in Stubble Grain	1-1/3 to 2 quarts		Following the harvest of small grains, wild garlic often produces new fall growth. Apply in 20 to 40 gallons of water per acre. This is a useful practice as one part of wild garlic control program. Do not plant any crop for three months after treatment. Do not forage for 14 days following applications.

* If band treatment is used, base the dosage rate on the actual area sprayed.

** Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming

Disclaimer: Always refer to the label on the product before using Helena or any other product.

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SPECIMEN LABEL

RESTRICTIONS AND LIMITATIONS FOR USE ON CEREAL GRAINS (Not Underseeded with a Legume) (Barley, Rye, Wheat)

- The higher rates increase the risk of grain injury and should be used only where the weed control problem justifies the grain damage risk.
- Apply WEED RHAP LV-6D in sufficient water for adequate coverage.
- Do not permit dairy animals or meat animals being finished for slaughter to forage treated grain fields within 2 weeks after treatment.
- Do not feed treated straw to livestock
- **Postemergence:**
 - Limited to one application per crop cycle.
 - Maximum of 21 ounces per acre per application.
- **Preharvest:**
 - Limited to one application to crop cycle.
 - Maximum of 11.4 ounces per acre per application
- Preharvest interval (PHI) is 14 days.
- Limited to 40 ounces per acre per crop cycle

**CEREAL GRAINS (Not Underseeded with a Legume)
Oats**

WEEDS IN CROPS	AMOUNT OF WEED RHAP LV-6D PER ACRE* (Average Conditions)	DIRECTIONS FOR USE
Spring Planted Oats	1/3 pints	Apply in sufficient water to give good coverage. Apply after the fully tillered stage, except during the boot to dough stage. Note: Oats are less tolerant to 2,4-D than wheat or barley and more likely to be injured.
Fall Planted Oats	1/3 to 5/6 pints	Apply after full tillering but before early boot stage. Some difficult weeds may require higher rates of 1/2 to 5/6 pints per acre for maximum control, but injury may result. Do not spray during or immediately following cold weather. Note: Oats are less tolerant to 2,4-D than wheat or barley and more likely to be injured.
Pre-Harvest	2/3 pints	Apply with recommended amount of water per acre when grains are in the hard dough stage to control large weeds that may interfere with harvest. Best results will be obtained when soil moisture is sufficient to cause succulent weed growth.

* If band treatment is used, base the dosage rate on the actual area sprayed.

RESTRICTIONS AND LIMITATIONS FOR USE ON CEREAL GRAINS (Not Underseeded with a Legume) (Oats)

- The higher rates increase the risk of grain injury and should be used only where the weed control problem justifies the grain damage risk.
- Apply WEED RHAP LV-6D in sufficient water for adequate coverage.
- Do not permit dairy animals or meat animals being finished for slaughter to forage treated grain fields within 2 weeks after treatment.
- Do not feed treated straw to livestock.
- **Postemergence:**
 - Limited to one application per crop cycle.
 - Maximum of 21 ounces per acre per application.
- **Preharvest:**
 - Limited to one application to crop cycle.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

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SPECIMEN LABEL

- Maximum of 11.4 ounces per acre per application
- Preharvest interval (PHI) is 14 days.
- Limited to 40 ounces per acre per crop cycle

CORN (Field and Pop)

WEEDS IN CROPS	AMOUNT OF WEED RHAP LV-6D PER ACRE	DIRECTIONS FOR USE
Preplant or Preemergence	2/3 to 1-1/3 pints	Apply product from 3 to 5 days after planting but before corn emerges. Do not use on very light, sandy soils. Use the higher rates on heavy soils. Plant corn as deep as practical.
Postemergence	1/3 pints In Dry Conditions (as in Western States*) Use 1/3 to 1/2 pint	Best results are usually obtained when weeds are small and corn is 4 to 18 inches tall. When corn is over 8 inches tall, use drop nozzles. Do not apply from tasseling to dough stage. If corn is growing rapidly and temperature and soil moisture content is high, use 1/3 pint per acre rate to reduce possibility of crop damage. Delay cultivation for 8 to 10 days to prevent stalk breakage due to temporary brittleness caused by 2,4-D. Application rates of up to 2/3 pint per acre may be used to control some hard to control weeds. However, the possibility of injury to the corn is increased. If corn is over 8 inches tall, use drop nozzles to keep spray off corn foliage as much as possible. Do not use with oil, atrazine, or other adjuvants. Since the tolerance to 2,4-D of individual hybrids varies, consult your local Extension Service, Agricultural Experiment Station, or University Weed Specialist for information.
Preharvest	2/3 to 1-1/3 pints	After the hard dough or denting stage, apply 2/3 to 1-1/3 pints per acre by air or ground equipment to suppress perennial weeds, decrease weed seed production, and control tall weeds such as bindweed, cocklebur, dogbane, jimsonweed, ragweed, sunflower, velvetleaf, and vines that interfere with harvesting.
Postharvest	1-1/3 to 2 quarts	Following the harvest of corn, wild garlic often produces new fall growth. This should be sprayed with 1-1/3 to 2 quarts of product per acre. This is a useful practice as one part of a wild garlic control program. Do not plant any crop for three months after treatment.

* Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming

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RESTRICTIONS AND LIMITATIONS FOR USE ON CORN (Field and Pop)

- Preharvest Interval (PHI) is 7 days.
- Do not use treated crop as fodder for 7 days following application.
- Maximum Use rate per acre per crop cycle is 69 ounces.
- Preplant or Preemergence:
 - Limited to one application per crop cycle.
 - Maximum of 23 ounces per acre per application.
- Postemergence:
 - Limited to one application per crop cycle.
 - Maximum of 11.4 ounces per acre per application.
- Preharvest:
 - Limited to one application per crop cycle.
 - Maximum of 34 ounces per acre per application.

CORN (Sweet)

WEEDS IN CROPS	AMOUNT OF WEED RHAP LV-6D PER ACRE	DIRECTIONS FOR USE
Preplant or Preemergence	2/3 to 1-1/3 pints	Apply product from 3 to 5 days after planting but before corn emerges. Do not use on very light, sandy soils. Use the higher rates on heavy soils. Plant corn as deep as practical.
Postemergence	1/3 pints In Dry Conditions (as in Western States*) Use 1/3 to 1/2 pint	Best results are usually obtained when weeds are small and corn is 4 to 18 inches tall. When corn is over 8 inches tall, use drop nozzles. Do not apply from tasseling to dough stage. If corn is growing rapidly and temperature and soil moisture content is high, use 1/3 pint per acre rate to reduce possibility of crop damage. Delay cultivation for 8 to 10 days to prevent stalk breakage due to temporary brittleness caused by 2,4-D. Application rates of up to 2/3 pint per acre may be used to control some hard to control weeds. However, the possibility of injury to the corn is increased. If corn is over 8 inches tall, use drop nozzles to keep spray off corn foliage as much as possible. Do not use with oil, atrazine, or other adjuvants. Since the tolerance to 2,4-D of individual hybrids varies, consult your local Extension Service, Agricultural Experiment Station, or University Weed Specialist for information.
Postharvest	1-1/3 to 2 quarts	Following the harvest of corn, wild garlic often produces new fall growth. This should be sprayed with 1-1/3 to 2 quarts of product per acre. This is a useful practice as one part of a wild garlic control program. Do not plant

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		any crop for three months after treatment.
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* Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming

RESTRICTIONS AND LIMITATIONS FOR USE ON CORN (Sweet)

- Preharvest Interval (PHI) is 45 days.
- Do not use treated crop as fodder for 7 days following application.
- Minimum of 21 days between applications.
- Maximum Use rate per acre per crop cycle is 34 ounces.
- Preplant or Preemergence:
 - Limited to one pre-plant or preemergence application per crop cycle.
 - Maximum of 23 ounces per acre per application.
- Postemergence:
 - Limited to one postemergence application per crop cycle.
 - Maximum of 11.4 ounces per acre per application.

SORGHUM (Milo)

WEEDS IN CROPS	AMOUNT OF WEED RHAP LV-6D PER ACRE	DIRECTIONS FOR USE
Preplant or Preemergence	1/3 pints In Dry Conditions (as in Western States*) Use 1/3 to 1/2 pint	Apply to sorghum when crop is 4 to 12 inches high with secondary roots well established. Use drop nozzles when crop is over 10 inches high. Do not apply from flowering to dough stage. Rates of up to 2/3 pint per acre may be used to control some hard to control weeds. However, the chance of crop injury is increased with the higher rates. Do not use with oil. Use lower rate if conditions of high temperature and high soil moisture exist. Varieties vary in tolerance to 2,4-D and some hybrids are quite sensitive. Spray only varieties known to be tolerant to 2,4-D. Contact seed company or your Agricultural Experiment Station or Extension Service weed specialists for this information.

* Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming

RESTRICTIONS AND LIMITATIONS FOR USE ON SORGHUM (Milo)

- Preharvest Interval (PHI) is 30 days.
- Do not permit meat or dairy animals to consume treated crop as fodder or forage for 30 days following application.
- Limited to one application per crop cycle.
- Maximum of 11.4 ounces per acre per application.

SOYBEANS (Preplant Only)

Weeds in Crop	Amount of WEED RHAP LV-6D per acre	Directions for Use
Pre-plant burndown (Before 7 days of planting)	1/2 to 2/3 pint	For use in crop residue management systems: For best weed control, apply to postemergent weeds when small, actively growing, and free of stress caused by extremes in climatic conditions, diseases,
Pre-plant burndown (Before 15 days of planting)	2/3 to 1-1/3 pints	

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		<p>or insect damage. The response of individual weed species is variable. Consult your local county agent or state Agricultural Extension Service or crop consultant for advice. Use the higher rate on larger weeds when perennials are present.</p> <p>Apply in 2 or more gallons of water per acre in aerial equipment and 10 or more gallons of water per acre in ground equipment.</p> <p>After applying, plant soybean seed as deep as practical or at least 1-1/2 to 2 inches deep. Adjust the planter press wheel, if necessary, to ensure that planted seed is completely covered.</p> <p>If desired, this product may be applied preplant to soybeans in tank mixtures with other herbicides such as Poast®, Poast® Plus, Roundup®, Roundup® D-Pak, Honcho®, Gramoxone® Extra, Prowl®, Pursuit® Plus, Scepter® 70DG, Squadron®, and others that are registered for preplant soybean use.</p> <p>Compatible crop oil concentrates, nonionic surfactants, and fluid fertilizers approved for use on growing crops may increase the herbicidal effectiveness of 2,4-D on certain weeds and may be added to the spray tank. Read and follow all directions and precautions on this label and on all labels of adjuvants or fertilizers mixed with this product.</p> <p>NOTE: Unacceptable injury to soybeans planted in treated fields may occur. Whether or not soybean injury occurs and the extent of the injury will depend on weather (temperature and rainfall) from herbicide application until soybean emergence and agronomic factors such as the amount of weed vegetation and previous crop residue present. Injury is more likely under cool, rainy conditions and where there is less weed vegetation and crop residue present.</p>
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RESTRICTIONS AND LIMITATIONS FOR USE IN SOYBEANS (PREPLANT)

- Preplant:
 - Preplant for Two (2) applications per crop cycle
 - Limited to 2 preplant applications per crop cycle.
 - Maximum of 11.4 ounces per acre per preplant application.

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- Apply not less than 7 days prior to planting soybeans.
- Preplant for Single (1) application per crop cycle
 - Limited to 1 preplant application per crop cycle.
 - Maximum of 23 ounces per acre per preplant application.
 - Apply not less than 15 days prior to planting soybeans
- Do not apply WEED RHAP LV-6D when weather conditions such as temperature, air inversions, or wind favor drift from treated areas to susceptible plants.
- Do not apply WEED RHAP LV-6D prior to planting soybeans if you are not prepared to accept the results of soybean injury including possible loss of stand and yield.
- Do not replant fields treated with WEED RHAP LV-6D in the same growing season with crops other than those labeled for 2, 4-D pre-plant use.
- Do not mow or cultivate weeds prior to treating with WEED RHAP LV-6D as poor control may result.
- Do not cut for feed treated hay, forage, or fodder or graze treated soybeans to livestock.
- Do not apply WEED RHAP LV-6D pre-plant to soybeans in fields having a coarse-textured soil where the percent organic matter is <1.0%.
- Only one application of WEED RHAP LV-6D may be made prior to planting soybeans per growing season.
- Do not feed treated hay, forage or fodder. Livestock should be restricted from feeding/grazing of treated cover crops.
- Not currently registered for use In California.

RED POTATOES (Grown for Fresh Market)

USE IN CROPS	AMOUNT OF WEED RHAP LV-6D PER ACRE	DIRECTIONS FOR USE
Properly timed applications of this product generally enhance red color, aid in storage retention of red color, improve skin appearance, increase tuber set, and improve tuber size uniformity (fewer jumbos). Crop response may vary depending on variety, stress factors, and local conditions. Consult with Agricultural Extension Service and other qualified crop advisors for local treatment.	Apply 1.6 fl. oz. of this product per acre	Apply in 5 to 25 gallons of water using ground or aerial equipment. The specific spray volume selected should be sufficient for good coverage of plants. Make first application when potatoes are in the pre-bud stage (about 7 to 10 inches high) and make a second application about 10 to 14 days later. Do not exceed two applications per crop. Do not harvest within 45 days of application. Uneven application or mixture with other pesticides and additives may increase the risk of crop injury.

RESTRICTIONS AND LIMITATIONS FOR USE ON RED POTATOES (Grown for Fresh Market):

- Only for use on potatoes intended for fresh market.
- The preharvest interval (PHI) is 45 days.
- Postemergence:
 - Limited to 2 applications per crop cycle.
 - Maximum of 1.6 ounces per acre per application.
 - Minimum of 10 days between applications.

GRASSES IN CONSERVATION RESERVE PROGRAM AREAS

Weeds in Crop	Amount of WEED RHAP LV-6D per acre	Directions for Use
Annual broadleaf weeds.	1/3 to 2/3 pint	Apply when weeds are small and actively growing. Use higher rates on older weeds. Excessive injury may result if applied to

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SPECIMEN LABEL

		young grasses with fewer than 6 leaves or prior to grasses being well established
Biennial and perennial broadleaf weeds in established grasses	1-1/3 to 2-2/3 pints	Apply to actively growing weeds. Treat when biennial weeds are in the seedling to rosette stage and before flower stalks become apparent. Treat perennial weeds in the bud to bloom stage.

RESTRICTIONS AND LIMITATIONS FOR USE ON GRASSES IN CONSERVATION RESERVE PROGRAM AREAS

- Use at least 2 gallons of water per acre by air and 5 gallons of water per acre by ground.
- Do not harvest or graze treated Conservation Reserve Program areas.
- Do not apply to grasses in the boot to dough stage if grass seed production is desired

ESTABLISHED GRASS PASTURES , RANGELAND

Weeds in Crop	Amount of WEED RHAP LV-6D per acre	Directions for Use
For susceptible annual and biennial broadleaf weeds	2/3 to 2-2/3 pints	Apply 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.

RESTRICTIONS AND LIMITATIONS FOR USE IN PASTURES AND RANGELANDS

- Do not graze (dairy) cattle in treated areas for 7 days after application.
- Do not cut forage for hay within 7 days of application.
- Postemergence:
 - Limited to 2 applications per year.
 - Maximum of 46 ounces per acre per application.
 - Minimum of 30 days between applications.
 - If grass is to be cut for hay, agricultural use requirements for the worker protection standards are applicable.
 - For program lands, such as the Conservation Reserve Program, consult the program rules to determine whether grass or hay may be used. The more restrictive requirements of the program rules or this label must be followed.

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FALLOWLAND (CROP STUBBLE ON IDLE LAND OR POST-HARVEST TO CROPS OR BETWEEN CROPS)

Weeds in Crop	Amount of WEED RHAP LV-6D per acre	Directions for Use
Annual broadleaf weeds	1-1/3 to 2-2/3 pints	Apply in sufficient carrier volume to insure adequate coverage.
Perennial broadleaf weeds	Up to 2-2/3 pints	On established perennial species such as Canada thistle and field bindweed, apply higher rates.

RESTRICTIONS AND LIMITATIONS FOR USE IN FALLOWLAND (CROP STUBBLE ON IDLE LAND OR POST-HARVEST TO CROPS OR BETWEEN CROPS)

- Plant only labeled crops within 29 days after application.
- Do not plant any non-labeled crop for 3 months after treatment or until 2,4-D has disappeared from the soil.
- Limited to 2 applications per year.
- Maximum of 46 ounces per acre per application.
- Minimum of 30 days between applications.

TURF GROWN FOR SEED OR SOD

Weeds in Crop	Amount of WEED RHAP LV-6D per acre	Directions for Use
Annual and perennial broadleaf weeds	2/3 to 2-2/3 pints	Do not apply from early boot to milk stage. Spray seedling grass only after the five leaf stage, using 1/2 to 2/3 pint per acre to control small seedling weeds. After the grass is well established, higher rates of up to 2-2/3 pints per acre can be used to control hard to kill annual or perennial weeds. For best results, apply when soil moisture is adequate for good growth. Do not use on bent grass unless injury can be tolerated.

RESTRICTIONS AND LIMITATIONS FOR USE ON TURF GROWN FOR SEED OR SOD

- Do not graze dairy animals or cut forage for hay within 7 days of application.
- Limited to 2 applications per year.
- Maximum of 46 ounces per application.
- Minimum of 21 days between applications.

NON-CROPLAND

Such as Fencerows, Hedgerows, Roadsides, Drainage Ditches, Rights-of-Way, Utility Power Lines, Railroads and Other Non-Crop Areas

Weeds in Crop	Amount of WEED RHAP LV-6D per acre	Directions for Use
Annual broadleaf weeds	1-1/3 to 3 pints	Apply when most annual broadleaf weeds are still young and growing vigorously
Perennial and biennial weeds	1-1/3 to 3 pints	Apply when perennial and biennial weeds are actively growing and near the bud stage, but before flowering.

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For woody plants	2-2/3 to 5-2/3 pints	For best results on tansy ragwort and musk thistle, treat in rosette stage, before bolting. A second application is usually needed for best results on thistle, nettle, and bindweed. Treat wild onion or garlic in early spring and in fall when they are young and growing actively. Mix 2-2/3 to 5-2/3 pints of this product in 2 quarts kerosene or diesel oil, then add this mixture to 100 gallons of water. Apply 300 to 500 gallons of spray per acre, depending on the stand. The addition of a wetting agent (spray adjuvant) is suggested. Usually 2-2/3 pints per acre will give adequate control. Do not use on herbaceous ground covers or creeping grass such as bent. Legumes will usually be damaged or killed. Deep-rooted perennials may require repeat applications. Do not use on freshly seeded turf until grass is well established. Delay reseeding for 30 days or until 2,4-D has disappeared from soil.
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RESTRICTIONS AND LIMITATIONS FOR USE ON NON-CROPLAND

- Postemergence (annual and perennial weeds):
 - Limited to 2 applications per year
 - Maximum of 48 ounces per acre per application
 - Minimum of 30 days between applications.
- Postemergence (woody plants):
 - Limited to 1 application per year
 - Maximum of 91 ounces per acre per year
- Do not graze dairy animals for 7 days following application.
- Use sufficient spray volume for thorough and uniform coverage.
- Applications to non-cropland areas are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

SPOT TREATMENT IN NON-CROP AREAS

Mix 2-2/3 fluid ounces of WEED RHAP LV-6D per gallon of water. Wet all weeds and stems thoroughly. For best results, treat when weeds are actively growing.

ORNAMENTAL TURF AREAS

Golf Courses, Cemeteries, Parks, Sports fields, Turfgrass, lawns, and Other Grass Areas

Weeds in Crop	Amount of WEED RHAP LV-6D per acre	Directions for Use
Broadleaf weeds	2/3 to 2 pints	Apply in 40 to 180 gallons or enough water to give good coverage to one acre on established stands of perennial grasses, depending on type of weeds and stage of growth. Usually 2-2/3 pints per acre provides good weed control under average conditions. On turf, apply a maximum of 2 pints of this product per acre per application per site. Treat when weeds are young and actively growing. Do not apply to newly

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SPECIMEN LABEL

		<p>seeded grasses until well established. Use higher rate for hard-to-kill weeds. Use higher rate when using higher volume of water per acre. Do not exceed specified application dosages for any area. Deep-rooted perennial weeds may require repeated treatments in the same season or in subsequent years. Spray when air temperature is between 50° and 85° F. Avoid applying during excessively dry or hot periods unless irrigation (watering) is used before treatment. Do not apply if rainfall is expected within 48 hours, nor should lawns be irrigated for 48 hours following application. For optimum results, turf should not be mowed for 1 to 2 days before and after application. Reseed no sooner than 3 to 4 weeks after application of this product. Adding oil, wetting agent, or other surfactant to the spray may be used to increase effectiveness on weeds, but doing so may reduce selectivity to turf resulting in turf damage. Maximum kill of weeds will be obtained by applying in spring and early fall when weeds are actively growing. Do not use on golf greens nor on dichondra or other broadleaf herbaceous ground covers. Do not use on creeping grasses such as bent grass and St. Augustine except for spot spraying. Newly seeded turf should not be treated until after the second mowing and the lower dosage rate should be used.</p>
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RESTRICTIONS AND LIMITATIONS: ORNAMENTAL TURF AREAS

Golf Courses, Cemeteries, Parks, Sports fields, Turfgrass, lawns, and Other Grass Areas

- Postemergence (annual and perennial weeds):
 - Limited to 2 applications per year
 - Maximum of 2 pints per acre per application
 - Maximum seasonal rate is 69 ounces per acre, excluding spot treatments.
- Use sufficient spray volume for thorough and uniform coverage.
- Do not allow people (other than the applicator) or pets on treatment area during application.
- Do not enter treatment areas until sprays have dried.

FORESTRY (Tree Injection, Pine Release)

Weeds in Crop	Amount of WEED RHAP LV-6D	Directions for Use
Tree Injection (To control hardwoods, such as Oaks, Hickory, Maple, Pecan, Elm, Sumac, Sweetgum and Hawthorn)	Apply undiluted product in a concentrate tree injector calibrated to apply .7 ml. per injection. For dilute injections, mix 2/3 gallon of product in 19 gallons of water	Space injections 2" apart, edge to edge, completely around the tree and close to the base. The injector bit must penetrate the inner bark.
Hard-to-kill species, such as Hickory, Dogwood, Red maple, Blue beech and Ash,.	Apply undiluted product in a concentrate tree injector calibrated to apply .7 ml. per	Make injections 1 to 1-1/2 inches apart, edge to edge. Treatment may be made at any time of the

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	<p>injection.</p> <p>For dilute injections, mix 2/3 gallon of product in 19 gallons of water</p>	<p>year. For best results, injections should be made during growing season, May 15-October 15.</p>
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RESTRICTIONS AND LIMITATIONS: FORESTRY (Tree Injection, Pine Release)

- Injection:
 - Limit to one (1) injection application per year
 - Maximum 1.4 mls of WEED RHAP LV-6D per injection site.

FORESTRY (Conifer Release)

Weeds in Crop	Amount of WEED RHAP LV-6D	Directions for Use
<p>Conifer Release: For control of alder, apply of product per acre per</p>	<p>2/3 to 2 quarts</p>	<p>Apply in 8 to 25 gallons of water as a foliage spray. Treat when 3/4 of the brush foliage has attained full size leaves and before new conifer growth reaches 2" in length. This is usually between early May and mid-June. Adjust treatment date depending on stage of growth and brush species. This may cause leader deformation on exposed firs, but they should overcome this during the second year after spraying.</p>
<p>For control of susceptible brush species such as Ceanothus spp, Chinquapin, madrone, manzanita, oak, tanoak, and similar species to release hemlock, spruce, and firs</p>	<p>2 quarts</p>	<p>Apply in 8 to 25 gallons of water, just prior to or during budbreak of Douglas fir. To control Manzanita and Ceanothus in Ponderosa Pine, apply up to 2-2/3 quarts per acre before pine growth begins in spring. To increase performance, add 2 to 4 quarts of diesel, fuel oil, kerosene, or a suitable approved nonionic surfactant at recommended label rate.</p>
<p>To control hardwood species such as alder, aspen, birch, hazel, and willow.</p>	<p>1 to 2 quarts</p>	<p>After northern conifers, jack pine, red pine, black spruce, and white spruce cease growth and "harden off" in late summer, a spray of 1 to 2 quarts of product in 8 to 25 gallons of water per acre per site may be applied by air to control certain competing Since this treatment may cause occasional conifer injury, do not use if such injury cannot be tolerated. Consult your regional or extension forester or state herbicide specialist for recommendations to fit local conditions.</p>

RESTRICTIONS AND LIMITATIONS: FORESTRY (Conifer Release)

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SPECIMEN LABEL

- Broadcast applications
 - Limited to one broadcast application per year
 - Maximum of 91 ounces per acre per year

WOODY PLANT CONTROL

Weeds in Crop	Directions for Use
To control woody plants susceptible to 2,4-D, such as alder, buckbrush, elderberry, sumac, and willow on non-crop areas,	Use 1-1/3 to 2 quarts of product in 100 gallons of water. Wet all parts of the plants thoroughly, including stem and foliage, to the point of runoff. Higher volumes of up to 400 gallons per acre are necessary where the brush is very dense and over 6 to 8 feet high. Applications are more effective when made on actively growing plants. Treatment should not be made during time of severe drought or in early fall when leaves lose their green color. Hard to control species may require re-treatment next season. In general it is better to cut tall wood plants and spray sucker growth when 2 to 4 feet tall.
Sand Shinnery Oak and Sand Sagebrush	On the oak, use 1-1/2 pints of this product in 5 gallons of oil or in 4 gallons of water plus 1 gallon of oil per acre. Apply by aircraft between May 15 and June 15. On the sagebrush, use 1-1/2 pints in 3 gallons of oil per acre and apply by aircraft when foliage is fully expanded and the brush is actively growing
Big Sagebrush and Rabbitbrush (for pastures and rangelands, see note below)	Use 1-1/2 to 4 pints per acre in 2 to 3 gallons of oil or in 3 to 5 gallons of oil-water emulsion spray. For rabbitbrush, the 4 pints per acre rate is usually required. Brush should be leafed out and growing actively when treated. Retreatment may be necessary.
Chamise, manzanita, buckbrush, coastal sage, coyotebrush and certain other chaparral species	Use 1-1/2 to 4 pints per acre in 5 to 10 gallons of water. One gallon of fuel oil may be included in the spray mixture for added effectiveness. Make applications by aircraft or ground equipment to obtain uniform spray coverage. For effective control, the brush must be fully leafed out and growing actively when sprayed. Retreatment may be needed. Consult state of local brush control specialists for most effective rate, volume and timing of spray application.
Dormant Application (other than Pine): For the control of susceptible deciduous brush species, such as alder, cascara, cherry, poplar, and serviceberry,.	Apply up to 2 quarts of product per acre in sufficient diesel, fuel oil or kerosene for good coverage. Application may be made by ground or air and should be made before conifer bud break
Pine Only: Make application while pine buds are still dormant.	Apply 1-1/3 quarts of product per acre in sufficient water for good coverage by air or ground equipment. Do not use this application unless some pine injury is acceptable. Use of diesel, kerosene, or other oil, or addition of surfactants to spray mix may cause unacceptable pine injury.
Site Preparation: (As Dormant Spray) (As Foliage Spray)	For control of alder prior to planting seedlings, apply 1-1/3 to 2-2/3 quarts of product per acre in 8 to 25 gallons of water, after alder budbreak but before foliage is 1/4 full size. For control of alder prior to planting seedlings, apply 1-1/3 - 2-2/3 quarts of product per acre in 8 to 25 gallons of water, after most alder leaves are full size. To increase penetration, 2 to 4 quarts per acre of diesel, fuel oil, kerosene, or a suitable approved nonionic surfactant at recommended label rates may be added to the spray mixture.

RESTRICTIONS AND LIMITATIONS: WOODY PLANT CONTROL

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SPECIMEN LABEL

- Broadcast applications
 - Limited to one broadcast application per year
 - Maximum of 91 ounces per acre per year

CHRISTMAS TREE PLANTATIONS

Weeds in Crop	Directions for Use
For control of labeled broadleaf weeds in Douglas fir Christmas trees.	Use 2/3 to 1-1/3 pints of this product per acre. Apply over the top of Douglas fir by ground or aerial application, e.g., only when the trees are dormant, prior to bud break. Do not spray over the top of pine or true firs (Abies spp.) Directed sprays may be made to weeds in Christmas tree plantations of all conifer species, but the spray must not contact tree foliage as injury may occur. Do not apply to weakened, diseased, or stressed seedlings, since unacceptable injury may occur. This product may be mixed with Atrazine for Christmas tree application (see Tank Mix section.)
Herbaceous Weed Control: To control over-wintering susceptible weeds, such as false dandelion, klamathweed, plantain, and tansyragwort,	Apply 2/3 to 2 quarts of product per acre in sufficient water for good coverage. Make application at rates and timing indicated above if pines are present. For control of hazel brush and similar species in the Lake States area, apply 1-1/3 quarts of product per acre per site in 8 to 25 gallons of water, when new shoot growth of hazel is complete.

RESTRICTIONS AND LIMITATIONS: CHRISTMAS TREE PLANTATIONS

- Broadcast applications
 - Limited to one broadcast application per year
 - Maximum of 91 ounces per acre per year

Wild Garlic and Wild Onion Control: Apply 2-2/3 to 2-3/4 pints of product per acre making three applications, fall-spring-fall or spring-fall-spring, starting in the late fall or early spring. Do not graze dairy cattle within 7 days of application. Do not apply this product within 30 days of cutting grass for hay. Remove meat animals from treated areas 3 days prior to slaughter.

Bitterweed, Broomweed, Croton, Kochia, Marshelder, Musk Thistle and Other Broadleaf Weeds: Use 2-2/3 to 3 pints of this product in 10 to 30 gallons of water per acre. If weeds are young and growing actively, 1-1/3 pints per acre will provide control of some species. Deep-rooted perennial weeds may require repeated treatments in the same year or in subsequent years.

Weed Control in Newly Sprigged Coastal Bermudagrass: Apply 1-1/2 to 2-3/4 pints of this product in 20 to 100 gallons of water per acre pre-emergence and/or postemergence.

Control of Southern Wild Rose: On roadsides and fencerows, use 2/3 gallon of this product plus 4 to 8 oz. of a nonionic surfactant, such as Induce®, per 100 gallons of water and spray thoroughly as soon as foliage is well developed. Two or more treatments may be required. On rangeland, apply a maximum of 2.9 pints of this product per acre pre application per site.

TANK MIXES

Read and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

CEREAL GRAINS

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SPECIMEN LABEL

WEED RHAP® LV-6D and Buctril® ME4 for weed control on cereal grains (wheat, barley and rye): Buctril® ME4 Broadleaf Herbicide will control some annual weeds that are resistant to this product and may be tank mixed with **WEED RHAP® LV-6D** for broader spectrum weed control on small grains. In cereal areas except Washington, Oregon and Idaho, use 1/3 to 2/3 pint of this product plus 1/2 to 3/4 pint of Buctril® ME4 per acre. In Washington, Oregon and Idaho: use 1/3 to 2/3 pint of this product plus 3/4 to 1 pint Buctril® ME4 per acre. First mix the **WEED RHAP® LV-6D** in water, then add the Buctril® ME4. Use the higher rates for larger weeds or where weed growth is slow due to dry or cold weather. Apply before weeds are 6 inches high. Use 10 to 20 gallons total spray volume per acre with ground equipment or 5 to 10 gallons total spray volume with air application. Use higher volume on larger weeds.

The preharvest interval (PHI) is 14 days.

Postemergence:

Limited to one postemergence application per crop cycle. Maximum of 1.25 lbs ae/acre per application.

Preharvest:

Limited to one preharvest application per crop cycle.

Maximum of 0.5 lbs ae/acre per application.

Limited to 1.75 lbs ae/acre per crop cycle.

WEED RHAP® LV-6D and Amber® Tank Mix for Control in Wheat, Barley, Pastures, Rangeland and Conservation Reserve Program Areas: Use Amber® recommended rates and application guidelines in combination with **WEED RHAP® LV-6D** in the following applications:

To control broadleaf weeds beyond optimum treatment size for Amber.

To control broadleaf weeds not listed on the Amber® label.

To control sulfonylurea resistant weeds.

For henbit control, apply with Amber® in early post-emergent applications.

WEED RHAP® LV-6D with Banvel® (or Banvel® SGF) and Ally® (or Express®) to provide more complete Kochia control: Offers quick burndown. Provides residual activity with Ally to control later weed flushes making harvesting easier and reducing post-harvest weed control needs. Controls broader weed spectrum while offering better control of Russian thistle, mustards, flixweed and wild buckwheat. Allow for early treatment. Apply 5.3 ounces of this product with 0.1 ounce of Ally plus either 2 to 3 ounces of Banvel® or 4 to 6 ounces of Banvel® SGF per acre. The tank mix can be applied to winter wheat from the four-leaf stage (tillering) to prior to joint. It can be applied to spring wheat from the four-leaf stage through the five-leaf stage. Growers who want to rotate to a sensitive crop following wheat and are concerned about carryover from Ally® can substitute Express® in the tank mix which allow crop rotation 60 days after application. The recommended rate of Express® is 1/6 ounce per acre.

WEED RHAP® LV-6D and Peak® for Post-emergent Weed Control in Grain Sorghum: Use 2-1/2 to 5 ounces per acre of **WEED RHAP® LV-6D** in combination with Peak® herbicide. Application should be made as a directed spray when sorghum reaches 5-8" or 8-24" in height. For Applications in Wheat, Barley and Rye: Use the lower tank mix rate for Peak® in conjunction with 5 to 8 ounces per acre of **WEED RHAP® LV-6D** to control thistles and field bindweed. Application limited to spring after tillering and prior to jointing. For Control of Kochia (1-6"), Lambsquarter (1-6"), Morningglories (1-6") and Pigweeds (1-8") in Wheat and Fall Seeded Barley: Apply tank mix rate of Peak in combination with 5 to 8 ounces per acre of **WEED RHAP® LV-6D** after tillering and prior to jointing.

WEED RHAP® LV-6D and Finesse® for Post-emergent Applications to Control Broadleaf Weeds in Wheat and Barley: Combine label recommended use rates of Finesse with 5 to 10 ounces per acre of **WEED RHAP® LV-6D**. Follow all spray application guidelines as outlined on the Finesse label.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

SOYBEANS

WEED RHAP® LV-6D and Turbo® 8EC in reduced-tillage or no-till systems: WEED RHAP® LV-6D may be applied in combination with Turbo® 8EC for the control of annual grasses and broadleaf weeds and the suppression of emerged perennial weeds when soybeans are directly seeded into a stale seedbed, cover crop or in previous crop residues. Special precautions: poor weed control and/or crop injury may result if directions are not followed. Do not use a rib-type press wheel on your no-till planter or crop injury may result. Apply at a rate of 1-1/3 pints WEED RHAP® LV-6D (1 Lb. a.i.) per acre with labeled rates of Turbo® 8EC. Application is recommended 30 days prior to planting.

WEED RHAP® LV-6D and Poast® as a burndown prior to planting soybeans: For broad spectrum post-emergence weed control, a tank mix application of WEED RHAP® LV-6D with Poast® may be made for control of emerged broadleaf and grass weeds before planting soybeans. Apply at a rate of 2/3 pints this product (1/2 Lb. a.i.) per acre with labeled rates of Poast® up to 30 days prior to planting.

WEED RHAP® LV-6D with Scepter®, Scepter 70DG or Squadron® in preplant applications on no-till soybeans: For broad spectrum post-emergence weed control, a tank mix application of WEED RHAP® LV-6D with Scepter®, Scepter® 70 DG or Squadron® herbicides may be made for the control of emerged broadleaf and grass weeds before planting soybeans. Apply at a rate of 1/2 lb. a.i. of this product (Approximately 2/3 pint) per acre up to 7 days prior to planting, or 1 lb. a.i. (approximately 1-1/3 pints) per acre up to 30 days prior to planting with labeled rates of Scepter®, Scepter® 70DG or Squadron® herbicides.

WEED RHAP® LV-6D and Sencor® as knockdown herbicides for no-till. WEED RHAP® LV-6D with Sencor® DF alone or in combination with Dual®, Lasso®, Surflan® or Prowl® may be applied as an early preplant surface application for the control of certain broadleaf weeds and grasses in soybeans in minimum or no-till products. Application is recommended 30 days prior to planting. Apply at a rate of 1-1/3 pints this product (1 Lb. a.i.) per acre with labeled rates of Sencor®. Where grass herbicide is used in tank mix, apply at the rates specified on that product's label.

CHRISTMAS TREES

WEED RHAP® LV-6D and Atrazine for weed control in forest and Christmas tree plantings: A tank mix of these two products can be used to control weeds and thus aid in establishment of young transplants of Douglas fir, grand fir, nobel fir, white fir, Austrian pine, bishop pine, Jeffrey pine, Knobcone pine, loblolly pine, lodgepole pine, Monterey pine, ponderosa pine, scotch pine, slash pine, blue spruce and Sitka spruce.

The mix should be applied between fall and early spring, preferably in February or March, while trees are still dormant, or soon after transplanting. Weeds should not be more than 1-1/2 inches high. It can be applied with either ground or air equipment. Helicopters have been highly effective for reforestation applications or steep terrain. Uniform application is the key to good weed control. Use 20 to 40 gallons of water per acre for ground application. When applying by air, use a minimum of 5 gallons of water. Be sure equipment is properly calibrated. All screens in the spray system -- nozzles, and in-line and suction strainers -- should be 15 mesh or coarser. Use a pump with capacity to maintain a nozzle pressure of 35 to 40 psi, and sufficient agitation to keep the mixture in suspension in the spray tank. If a nurse tank is used, keep the mixture agitated while awaiting transfer to the spray tank. Mix 2 to 4 quarts atrazine 4L or 2-1/2 to 5 pounds atrazine 80W with 2/3 to 2 quarts per acre of WEED RHAP® LV-6D. The actual rate of atrazine used should depend on soil type. Soils high in organic matter require higher rates than light to medium soils. Band application to Christmas Trees - Calculate the amount to be applied per acre. The band width in inches, divided by the rows spacing in inches, times the rate per acre for broadcast treatment will equal the amount needed per acre for band treatment. For example, when treating a 4-foot band over trees planted in rows of 8 feet apart, apply 1-1/4 to 2-1/2 pounds of atrazine per acre. Please read atrazine label(s) for additional instructions.

NON-CROP & WOODY PLANT CONTROL

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SPECIMEN LABEL

WEED RHAP® LV-6D and Garlon® 4 or Garlon® 3A Tank Mixtures for Non-Crop Area: Broadleaf Weed Control:

Use 1-1/3 to 2-2/3 pints **WEED RHAP® LV-6D** plus 2 to 6 pints Garlon® 4 or 3 to 8 pints Garlon® 3A per acre. For wider spectrum control of broadleaf weeds and woody plants, apply as a broadcast spray in enough water to deliver 20 to 100 gallons total spray per acre. Apply when broadleaf weeds are actively growing. Woody Plant Control - Broadcast Foliar Spray: Use 2/3 to 1-1/3 gallons **WEED RHAP® LV-6D** plus 1-1/2 to 3 quarts Garlon® 4 or 2 to 4 quarts Garlon® 3A per acre. Apply as a broadcast spray in enough water to deliver 20 to 100 gallons total spray per acre. Apply when woody plants are actively growing. Woody Plant Control High Volume Leaf-Stem Treatment with Ground Equipment: Use 2/3 to 5-1/3 quarts **WEED RHAP® LV-6D** plus 1-1/2 to 12 pints Garlon® 4 or 2 to 16 pints Garlon® 3A per acre. Mix 1/2 to 1-1/3 quarts product, plus 1-1/2 to 3 pints Garlon® 4 or 2 to 4 pints Garlon® 3A in enough water to make 100 gallons of spray. Apply at a volume of 100 to 400 gallons of total spray per acre depending on size and density of woody plants. Thoroughly wet all leaves, stems, and root collars of plants to be controlled. Woody Plant Control Aerial Application (Helicopter only): Use 2/3 to 1-1/3 gallons **WEED RHAP® LV-6D** plus 3 to 4 quarts Garlon® 4 or 4 to 6 quarts Garlon® 3A per acre. Apply in a total spray volume of 10 to 30 gallons per acre using drift control equipment or an effective drift control agent such as Sta-Put® or Strike Zone®. Use the higher rates and volumes when plants are dense or under drought conditions.

WEED RHAP® LV-6D and Banvel® Herbicide tank mix for Non-Crop Areas: Annual Broadleaf Weeds:

Use 1-1/3 to 2-2/3 pints this product per acre plus 1/2 to 1-1/2 pints Banvel®. For wider spectrum control of broadleaf weeds and woody plants, apply as a broadcast spray in enough water to deliver 20 to 100 gallons total spray per acre. Apply when broadleaf weeds are actively growing. Use the higher rates when treating dense or tall vegetative growth. Perennial and Biennial Broadleaf Weeds: Use 2 to 4 pints this product per acre plus 1/2 to 6 pints Banvel®. Apply as a broadcast spray in enough water to deliver 20 to 100 gallons total spray per acre. Apply when broadleaf weeds are actively growing but prior to flowering. Use the lower rates for biennials less than 3 inches rosette diameter. Use the higher rate for perennial weeds or for biennial weeds past the 3 inch rosette stage. Woody Plant Control Broadcast, High Volume, Stem Foliage or Aerial Application: Use 2/3 to 1-1/3 gallons this product per acre plus 2 to 8 quarts Banvel®. Apply as a broadcast spray in enough water to deliver 20 to 100 gallons total spray per acre or apply as a high volume stem foliage spray in enough volume to thoroughly wet leaves, stems, and root collars (100 to 400 gallons per acre) or apply aurally in enough water to deliver total spray volume of 10 to 30 gallons per acre using drift control equipment or an effective drift control agent such as Sta-Put or Strike Zone. Use the higher rates and volumes when plants are dense or under drought conditions.

Tank Mixes of **WEED RHAP® LV-6D** and Escort®, Oust® or Telar® herbicides improve control of some target species and may also be tank mixed with these products for post-emergent weed control. Tank mixes have shown improved control where resistant bio-types are present.

NOTE: All intended tank mix combinations should be used only in recommended areas on the same broadleaf weed species found on both labels. For application methods and other use specifications, use the most restricted limitations from labeling of both products.

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

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

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 or 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

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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 shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, 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.

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