5905-501	everse before comple	tina form.	ousota		oroved	. OMB No.	2070-008	O. Approval expires 2-28-5
₽EPA	U Environmenta	Inited States			•	Registra	ation	OFP Identifier Number
		Application	for Pestic	ide - Sec	tion	1		
1. Company/Product Number			2. EPA Product Manager 3.			3. Pr	oposed Classification	
5905-501		·· <u>·</u>	· · · · · · · · · · · · · · · · · · ·	e Miller			[~	None Restricted
4. Company/Product (Name) Weed Rhap A-4D			PM# 23					
5. Name and Address of Applicant (Include ZIP Code) Helena Chemical Company 225 Schilling Boulevard, Suite 300 Collierville, Tennessee 38017			6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No Product Name					
			Section -					
 Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below. 			Final printed labels in repsonse to Agency letter dated					
152.46, and no other changes U.S.C. Sec. 1001 to willfully r and 40 CFR 152.46, this proc	nake any faise stateme	nt to EPA. I furthe	er understand th	at if this notific enforcement a	ation is	s not consiste	ent with the	terms of PR Notice 98-10
I. Material This Product Will	Be Packaged in:							
Child-Resistant Packaging	Unit Packaging		Water Soluble I	Packaging		2. Type of	Container	
Yes	Yes		Yes				Metal	
V No	V No		V No				Glass	
Certification must e submitted	lf "Yes" Unit Packaging wgt.	No. per container	lf "Yes" Package wgt	No. per containe	r		_ Paper _ Other (S	specify)
Location of Net Contents I	nformation	4. Size(s) Retail	Container	L	5. Lo	cation of Le	bel Directio	າກຣ
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			Section - I	V				
. Contact Point <i>(Complete)</i>	tems directly below fi	or identification o	f individual to b	e contacted,	if nec	asary, to p	rocess this	epplication.)
lame ·						· ·	elephone No. (Include Area Code)	
Mandy K. Styles			roduct Registra	uon Supervi	SOF		(901) 752	
l certify that the staten I acknowledge that any both under applicable i	knowlinglly faise or a		attachments th					6. Date Application Received (Stamped)
2. Signature			3. Title Product Registration Supervisor					
. Typed Name	- <u>-</u>		, Date					
Mandy K. Styles		7.1		18/2004				
PA Form 8570-1 (Rev. 3-94)	Previous editions are	obsolete.		Whi	te - EP	A File Copy	(original)	Yellov - Applicant Co

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Section continues

WEED RHAP® A-4D

2,4-D AMINE HERBICIDE

ACTIVE INGREDIENT:	BY WT.
Dimethylamine Salt of 2,4-	
Dichlorophenoxyacetic Acid	46.7%
INERT INGREDIENTS:	<u>53.3%</u>
TOTAL	100.0%

Equivalent to 38.8% of 2,4-Dichlorophenoxyacetic acid or 3.8 lb/gal. Isomer specific by AOAC Method 6.275, 13th Ed, 1980.

KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Wash thoroughly with soap and water after handling.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

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 person sip a glass of water if able to swallow. Do not give anything to an unconscious 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 ON SKIN	NOTIFICATION

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 INHALED:** Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-tomouth if possible. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY **STATMENTS** NET CONTENTS: EPA REG. NO. 5905-501 EPA EST. NO. 228-IL-001 SN 0302/0203 MANUFACTURED BY **HELENA CHEMICAL COMPANY** 225 SCHILLING BOULEVARD, SUITE 300 **COLLIERVILLE TENNESSEE 38017** PERSONAL PROTECTIVE EQUIPMENT Applicators and other handlers must wear: Long-sleeved shirt and long pants Waterproof gloves

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Shoes plus socks Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be re-used until it has been cleaned.

Engineering Controls Statements

If this container contains 5 gallons or more in capacity, do not open pour. A mechanical system (such as probe and pump or spigot) 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. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

When handlers use enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

JUN 3 © 2004

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.) 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame. DIRECTIONS FOR USE It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 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:

Long-sleeved shirt and long pants Waterproof gloves Shoes plus socks Protective evewear

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.

CHEMIGATION PROHIBITION

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

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Protect from freezing. If stored below 32°F and

crystals form, warm to 72°F for 24 hours, periodically rolling drum to reconstitute.

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 Containers - 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 Containers - 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® A-4D. 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.

GENERAL INFORMATION

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

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 areas 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 1 to 5 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 herbicides 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. This product contains the Dimethylamine salt of 2,4-D, one of the least volatile forms of 2,4-D.

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.

Users should note that herbicide treatment of public water requires a permit from appropriate state agencies in most states. Your state Conservation Department, or Game and Fish Commission will aid you in securing a permit in your state.

If stored below freezing, it may be necessary to warm product to 70° 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 containing ammonia.

Spray Preparation: Add the recommended amount of **Weed Rhap® A-4D** 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: Weed Rhap® A-4D may be combined with liquid nitrogen fertilizer suitable for foliar application of corn, grass, pastures, or small grains in one operation. Use Weed Rhap® A-4D according to directions on this label for those crops. Use liquid nitrogen 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 nitrogen fertilizer. In a separate container, mix the amount of Weed Rhap® A-4D to be used with an equal amount of water. Add Weed Rhap® A-4D mixture to the spray tank while agitating. Add the remainder of the fertilizer while continuing to agitate. Apply immediately, **RECOMMENDED RATE OF WEED RHAP® A-4D PER ACRE****

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.

NOTE Pre-mixing the product with an equal amount of water is important.

WHERE TO USE

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

By Air or Ground					
	Normal Rates	Higher rates for Special Situations*			
Сгор	(usually safe to crop)	(more likely to injure crop)			
Small Grains					
Spring Postemergent (not					
underseeded with legumes)					
wheat, barley, rye	2/3 to 1-1/3 pints	2 to 3 pints			
oats	1/2 to 1 pint	1 1/2 to 2 pints			
Spring Post emergent					
(underseeded with legumes)					
 wheat, barley, oats, rye 	1/4 to 1/2 pints				
Preharvest (dough stage)					
wheat, barley, oats	1 to 2 pints	2 to 3 pints			
Corn (Field & Sweet)					
Preplant	1 to 2 pints				
Preemergent	2 to 4 pints				
Emergent	1 pint	1 ½ pints			
Postemergent-					
up to 8 inches tall	1/2 to 1 pint				
8 inches to tasseling	1 pint	1 1/2 to 2 1/2 pints			
(use only directed spray)					
Preharvest	1 to 2 pints				
Sorghum					
Postemergent					
6 to 8 inches tall	2/3 to 1 pint				
8 to 15 inches tall	1 pint	1 1/2 to 2 pints			
(use only directed spray)		- -			
Rice	1 to 2 1/2 pints	2 to 3 pints			
Sugarcane	2 to 4 pints				
(Postemergent or Preemerge	nt)				
- · ·	•	-			

Note: The higher rates as recommended above may be necessary to control difficult weed problems, such as dry conditions in the Western States. They should not be used, however, unless possible crop injury is acceptable. User should consult local Extension Service or

Agriculture Experiment Station Weed Specialist for recommendations on special conditions.

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

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

WEEDS CONTROLLED

ALDERS ALLIGATOR WEED **AMERICAN LOTUS** ARROWHEAD ASTER ARTICHOKE AUSTRIAN FIELDCRESS *BEGGARTICKS BIDEN *BINDWEED BITTERSWEET BITTERWEED **BITTER WINTERCRESS** BLACKEYED SUSAN BLESSED THISTLE BLUE LETTUCE BOX ELDER BROOMWEED BUCKHORN BULLTHISTLE BULRUSH BURDOCK **BUR RAGWEED** BUTTERCUP *CANADA THISTLE CARPETWEED CATNIP CHICKWEED CHICKORY CINQUEFOIL COCKLE COCKLEBUR COFFEEBEAN COFFEEWEED **CREEPING JENNY** CROTON **CURLY INDIGO** DANDELION DEVIL'S CLAW Proboscidea louisianica *DOCKS *DOGBANE DUCKWEED ELDERBERRY FLEABANE FIXWEED FLORIDA PUSLEY FRENCHWEED GALINSOGA GOATSBEARD *GOLDENROD GOOSEFOOT

GUMWEED *GROUND IVY HEALALL HEMP HENBIT *HOARY CRESS HORSETAIL HONEYSUCKLE INDIGO **INDIAN MALLOW** *IRONWEED JERUSALEM ARTICHOKE **JEWELWEED** JIMSONWEED *KNOTWEED LAMBSQUARTERS LOCOWEED LUPINES *MALLOW MARIJUANA MARSHELDER MEXICAN WEED MORNINGGLORY ***MUSKTHISTLE MUSTARDS *NETTLES NUTGRASS *ORANGE HAWKWEED PARROT FEATHER PARSNIP PENNYCRESS PENNYWORT PEPPERGRASS PEPPERWEED **PIGWEEDS **PLANTAINS** POISON HEMLOCK POISON IVY POKEWEED POORJOE POVERTYWEED

PRICKLY LETTUCE

PUNCTURE VINE PURSLANE

*RUSSIAN THISTLE SAGEBRUSH

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PRIMROSE

RADISH

RUSH

SALSIFY

RAGWEED

SHEPHERDSPURSE SICKLEPOD *SMARTWEEDS SNEEZEWEED SOUTHERN WILD ROSE SOW THISTLE SPANISH NEEDLES SPATTERDOCK ST. JOHNSWORT STINGING NETTLES STINKWEED SUMAC SUNFLOWER SWEET CLOVER TANWEED TARWEED THISTLES TOADFLAX TUMBLEWEED VELVETLEAF VENICEMALLOW *VERVAINS VETCHES VIRGINIA CREEPER WATER HYACINTH WATER LILY WATER PLANTAIN WATER PRIMROSE WATER SHIELD WILD CARROT *WILD GARLIC WILD LETTUCE *WILD ONION WILD PARSNIP WILD RADISH WILD RAPE WILD STRAWBERRY WILD SWEET POTATO WILLOW

WITCHWEED WOODWORM WORMSEED YELLOW ROCKET

*These species may require repeated applications and/or use of the higher rate recommended on this product label even under ideal conditions.

Control of pigweeds in the High Plains area of Texas and Oklahoma may not be satisfactory with this product. *Not registered for control of muskthistle in CA.

CROPS

SMALL GRAINS NOT UNDERSEEDED WITH A LEGUME (BARLEY, OATS, WHEAT, RYE): See table for recommended use rates.

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.

Spring Planted Oats: Apply in sufficient water to give good coverage. Apply after the fully tillered stage, except during the boot to dough stage.

Fall Planted Oats: Apply after full tillering but before early boot stage. Some difficult weeds may require higher rates of 1 to 1 ½ 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. Do not forage or graze treated grain fields within 2 weeks after treatment with 2,4-D. Do not feed treated straw to livestock.

Spring Wheat and Durum: Weed Rhap A-4D may be used when the crop is in the three leaf stage but <u>before</u> the booting stage.

Emergency Weed Control in Wheat: For control of perennial broadleaf weeds, apply 3 pints per acre when weeds are approaching bud stage. Do not spray grain in the boot to dough stage. The 3 pint per acre application can produce injury to wheat. Balance the severity of your weed problem against the possibility of crop damage. Where perennial weeds are scattered, spot treatment is suggested to minimize the extent of crop injury. Use lower rate if small annual and biennial weeds are the major problem. Use the higher rate if perennial weeds or annual and biennial weeds are present which are in the hard-to-kill categories as determined by local experience. The higher rates increase the risk of grain injury and should be used only where the weed control problem justifies the grain damage risk. Do not apply to grain in the seedling stage. For aerial application, apply 1-5 gallons of water per acre; for ground application, use a minimum of 5 gallons of water per acre

CORN: See table for recommended use rates. **Preplant:** Apply 7 to 14 days before planting corn to control emerged broadleaf weed seedlings or existing cover crops. Do not use on light, sandy soil or where soil moisture is inadequate for normal weed growth. Use the higher rate for less susceptible weeds or cover crops such as alfalfa.

Preemergence: Apply Weed Rhap® A-4D 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.

Post Emergence: Best results are usually obtained when weeds are small and corn is 5 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 ½ 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 1 pint/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.

Pre-Harvest: After the hard dough or denting stage, apply 1 to 2 pints of **Weed Rhap® A-4D** 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. Do not forage or feed corn fodder to livestock for 7 days following application.

SORGHUM (Milo): See table for recommended rate. 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 1 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 exists.

Note: Corn & Sorghum hybrids vary in tolerance to 2,4-D. Some are easily injured. Spray only varieties known to be tolerant. Consult the seed company or your Agricultural Experiment Station or Extension Service Weed Specialist for this information.

RICE: See table for recommended rate.

Apply in the late tillering stage of development, at the time of first joint development (first to second green ring), usually 6 to 9 weeks after emergence. Do not apply after panicle initiation, after rice internodes exceed ½ inch, at early

seedling, early panicle, boot, flowering, or early heading growth stages. **Note:** 2,4-D can injure some rice varieties. Before spraying, consult local Extension Service or University specialists for appropriate rates and timing of sprays.

SUGARCANE: See table for recommended rate.

Apply as a pre- or post-emergent spray in the spring after canes merge and through lay-by. Consult local Agricultural Experiment or Extension Service Weed Specialists on specific use of this product.

ORNAMENTAL TURF: Use 1 to 4 pints in enough water to give good coverage to one acre of weeds when weeds are young and actively growing. Perennial weeds should be near the bud stage, but not flowering at application. Do not use on susceptible Southern grasses such as St. Augustine. Do not apply to newly seeded areas until grass is well established. Bentgrass, clover, legumes, and dichondra may be injured by this treatment.

NOTES FOR ALL TURF SITES (excluding sod farms):

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

GRASSES IN CONSERVATION RESERVE PROGRAM

AREAS: To control actively growing annual broadleaf weeds, use ½-1 pint per acre when weeds are small; use higher rate on older weeds. Excessive injury may result if applied to young grasses with fewer than 6 leaves or prior to grasses being well established. To control biennial and perennial broadleaf weeds in established grasses, apply to actively growing weeds at a rate of 2-4 pints per acre. Treat when biennial weeds are in the seedling to rosette stage and before flower stalks are apparent. Treat perennial weeds in the bud to bloom stage. **Note:** 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.

GRASS SEED CROPS: Apply 1 to 4 pints of **Weed Rhap® A-4D** per acre in the Spring or Fall to control broadleaf weeds in grass being grown for seed. Do not apply from early boot to milk stage. Spray seedling grass only after the five leaf stage, using 3/4 to 1 pint per acre to control small seedling weeds. After the grass is well established, higher rates of up to 4 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 unless injury can be tolerated. Keep dairy animals off treated areas for 7 days. Do not cut grass for hay for 30 days after treatment. Remove meat animals from treated areas 3 days prior to slaughter.

CROP STUBBLE AND FALLOW LAND: To control annual broadleaf weeds, apply 1-2 pints per acre. Use the lower rate when weeds are small (2-3" tall) and actively growing. Use the higher rate on older and drought-stressed plants. To control biennial broadleaf weeds, apply 2-4 pints per acre. Spray while musk thistles or other biennial species are in the seedling to rosette stage and before flower stalks become apparent. The lower rate can be used in the spring during rosette stage. Use the highest rate in the fall or after flower stalks have developed. To control perennial broadleaf (including cotton regrowth) weeds such as Canada thistle and field bindweed, apply 2-6 pints per acre. Spray weeds in bud to bloom stage or while in good vegetative growth. Do not disturb treated areas for at least 2 weeks after treatment or until weed tops are dead. To control wild garlic and onion, apply 4-6 pints per acre to prevent regrowth in the fall following harvest. Note: Do not plant any crop for 3 months after treatment or until chemical has disappeared from the soil.

ESTABLISHED PASTURES AND RANGELANDS: Use 1 to 4 pints of Weed Rhap® A-4D in sufficient water to give good coverage to one acre. Use the light rate on more easily injured grasses. For small areas, use 3/4-1 fluid ounce (1 1/2-2 tablespoons) per 1,000 square feet; mix 1-3 gallons of water and apply uniformly over the area. Preferably apply when weeds are small and actively growing before bud stage. Fall or spring is the best time to treat. Repeated treatments may be needed for less susceptible weeds. Treatment will kill or injure alfalfa, sweet clover and other legumes. White clover (including Ladino) may be injured by light application, but recovers; repeated applications will kill it. Some dichondra, bentgrass, carpet, buffalo, and St. Augustine grasses may be injured. Usually colonial bents are more tolerant than creeping types; velvets are most easily injured. Where bentgrass predominates, make 2 applications of 1 pint per acre at 3 week intervals. Keep dairy animals off treated areas for 7 days. Do not cut grass for hay for 30 days after treatment. Remove meat animals from treated areas 3 days prior to slaughter.

CONTROL OF SOUTHERN WILD ROSE: On rangelands, roadsides, and fencerows, use 1 gallon of product plus 4-8 fluid ounces of an agricultural surfactant per 100 gallons of water and spray thoroughly assoon as foliage is well developed. Two or more treatments may be required. On rangeland, apply a maximum of 4.2 pints of product per acre

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per application. Do not graze dairy animals on treated areas within 7 days of application.

GENERAL WEED CONTROL: (Airfields, roadsides, vacant lots, drainage ditch banks, fence rows, industrial sites and similar areas): Use 1 to 3 quarts of Weed Rhap® A-4D per acre. Usually 2 guarts 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 3 months or until 2,4-D has disappeared from soil.

SPOT TREATMENT IN NON-CROP AREAS: To control broadleaf weeds in a small area with a handsprayer, use 1/2 pint of product in 3 gallons of water and spray to thoroughly wet all foliage.

RIGHTS-OF-WAY: Apply up to 2 gallons of product per acre for the control of perennial broadleaf weeds and susceptible woody species. For less susceptible perennial broadleaf weeds and difficult to control woody species, use a combination of 2 gallons of product plus 1-4 guarts of Garlon@3A herbicide per acre. For ground application, apply in 20-400 gallons of water, depending on the height of the weeds and brush. Use the higher volumes of up to 400 gallons per acre for dense brush 6 feet tall or higher. For aerial application, use 10-30 gallons per acre total spray volume.

Garlon® is a registered trademark of DowElanco.

APPLES, PEARS, STONE FRUIT AND NUT ORCHARDS (DO NOT USE IN CA): To control annual broadleaf weeds on the orchard floor, apply 3 pints per acre using coarse sprays and low pressure in sufficient volume of water to obtain thorough wetting of weeds. Treat when weeds are small and actively growing. Do not use on light, sandy soil.

Note: Do not apply to bare ground as injury may result. Do not apply immediately before irrigation and withhold irrigation for 2 days before and for 3 days after treatment. Do not allow spray to drift onto or contact foliage, fruit, stems, trunks of trees or exposed roots since injury may result. Do not apply to newly established or young orchards; trees must be at least 1 year old and in vigorous condition. Do not apply during bloom. Do not graze or feed cover crops from treated orchards. Do not make more than 2 applications per year. Do not harvest stone fruit within 40 days and nuts within 60 days of application.

FILBERTS: For sucker control, apply 1 ½ -2 pints of Weed Rhap® A-4D in 100 gallons of water per acre. Spray to runoff when suckers are 6 to 9 inches tall. Spray when needed, from April through August. Use large orifice nozzles and low tank pressure (20 to 30 psi) to produce large droplet size. Do not apply more than 4 times per year. Do not harvest filberts within 45 days of last application. DO NOT ALLOW LIVESTOCK TO GRAZE IN TREATED AREAS OR FEEDING OF COVER CROPS FROM TREATED ORCHARDS TO LIVESTOCK.

WOODY PLANT CONTROL: To control woody plants susceptible to 2,4-D, such as alder, buckbrush, elderberry, sumac, and willow on non-crop areas, use 2 to 3 quarts of Weed Rhap A-4D per acre in 100 gallons of water. Wet all parts of the plants thoroughly, including stern and foliage, to the point of run off. 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.

TREE INJECTION: For the control of unwanted hardwoods such as elm, oak, hickory, and sweetgum in forest and other non-crop areas, apply undiluted Weed Rhap® A-4D by injecting 1 ml through the bark, using one injection per inch of trunk diameter measured at breast height (4 1/2 feet). For harder to control species (ash, maple, dogwood), use 2 ml of undiluted Weed Rhap® A-4D per injection. All injections should be as near the root collar as possible and should be evenly spaced around the trunk. Injections may be made at any time of the year but are most effective during the growing season. Maples should not be treated during the spring sap rise. For dilute injections, mix 1 gallon of product in 19 gallons of water.

Note: No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is directly injected into agricultural plants.

WEED AND BRUSH ON IRRIGATION CANAL DITCHBANKS - Seventeen Western States:

Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, New Mexico, Nevada, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, Wyoming.

For control of annual and perennial broadleaf weeds, apply 1 to 2 quarts of Weed Rhap® A-4D per acre in approximately 20 to 100 gallons of total spray. Treat when weeds are young and actively growing before the bud or early bloom stage. For harder to control weeds, a repeat spray may be needed after 3 to 4 weeks for maximum results, using the same rates.

Apply no more than 2 treatments per season. For woody brush and patches of perennial broadleaf weeds, mix one gallon of **Weed Rhap® A-4D** in 150 gallons of water. Wet foliage thoroughly, using approximately 1 gallon of spray solution per square rod.

Spraying Instructions: Low pressure (10 to 40 psi) power spray equipment should be used and mounted on a truck, tractor, or boat. Apply while traveling upstream to avoid accidental concentration of chemical into water. Spray when the air is calm, 5 mph or less. Do not use on small canals (less than 10 CFS) where water will be used for drinking purposes.

Boom spraying onto water surface must be held to a minimum and no cross-stream spraying to opposite banks should be permitted. When spraying shoreline weeds, allow no more than 2-foot overspray onto water with an average of less than one-foot overspray to prevent introduction of greater than negligible amounts of chemical into the water.

Do not allow dairy animals to graze on treated areas for at least 7 days after spraying. Water within treated banks should not be fished.

AQUATIC WEED CONTROL

Notice to Applicators: Before application, coordination and approval of local and state authorities may be required, either by letter of agreement or issuance of special permits for such use.

Fish breathe oxygen in the water and a water/oxygen ratio must be maintained. Decaying weeds use up oxygen. To avoid fish kill from decaying plant material, do not treat more than one half the lake or pond at one time. For large bodies of weed infested waters, leave buffer strips of at least 100 feet wide and delay treatment of these strips for 4 to 5 weeks or until the dead vegetation has decomposed.

Ground or Surface Application: Do not apply when wind speeds are at or above 10 mph.

Air Application: Do not apply when wind speeds are at or above 5 mph. The restrictions do not apply to subsurface applications used in weed control programs. Delay the use of treated waters for irrigation for three weeks after treatment unless an approved assay shows that the water does not contain more than 0.1 ppm 2,4-D acid. Do not treat irrigation ditches in areas where water will be used to overhead sprinkler irrigate susceptible crops especially grapes, tomatoes and cotton.

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Delay the use of treated water for domestic purposes for a period of three weeks or until such time as an approved assay shows that the water contains no more than 0.1 ppm 2,4-D acid.

FOR AQUATIC WEEDS IN LAKES, PONDS, RESERVOIRS, MARSHES, BAYOUS, DRAINAGE DITCHES, CANALS, AND RIVERS AND STREAMS THAT ARE QUIESCENT OR SLOW MOVING: Use 2 ½ to 4 ½ pints of Weed Rhap® A-4D in 50 to 100 gallons of water per acre. Spray to wet foliage thoroughly. Application should be made when leaves are fully developed above water line and plants are actively growing. Your State Conservation Department or Game and Fish Commission will assist you in determining the best time and rate for application under local conditions. Perennial and other hard to control weeds may require a repeat application to give adequate control.

WATER HYACINTH (*Eichornia crassipe*): For control of actively growing plants with surface and air applications, use 4 to 8 pints per acre. Spray the weed mass only. Use 8 pints when plants are matured or when the weed mass is dense. Repeat as necessary to kill regrowth and hyacinth plants missed in the previous application.

Surface Application: Use power sprayers operated with a boom or spray gun mounted on a boat, tractor, or truck. Thorough wetting of foliage is essential for maximum control. Use 100 to 400 gal/A of spray mixture. Special precautions such as the use of low pressure, large nozzles and thickening agents should be taken to avoid spray drift in areas of sensitive crops. For DIRECTASPRA[™] operation, use with 1 pint of drift control agent in 50 to 100 gallons of water. For other applications, follow the drift control agent label for mixing directions. Air Application: Use drift control spray equipment or thickening agents mixed into the spray solution. Apply 1.0 gallon per acre through standard boom systems with a minimum of 5 gallons of spray mix per acre. For MICROFOIL® drift control spray systems, apply in 12 to 15 gallons spray mix per acre.

WATER MILFOIL (*Myriophyllum spicatum*): For Eurasian Water Milfoil in programs conducted by the Tennessee Valley Authority in dams and reservoirs of the TVA system, Weed

Rhap® A-4D will control Water Milfoil with surface, subsurface and air applications.

To control water milfoil when less than 5 gallons of concentrate per acre is recommended, dilute the concentrate with water to apply a minimum of 5 gallons of spray mix per acre. Do not treat within ½ mile of potable water intakes. Shoreline areas should be treated by sub-surface injection applied by boat to avoid aerial drift. Do not apply when weather conditions favor drift from target area.

Open Water Areas: To reduce contamination and prevent undue exposure to fish and other aquatic organisms, do not treat water areas that are not infested with aquatic weeds. Apply 2.5 to 10 gallons per acre. The higher rate is used in areas of greater water exchange. These areas may require a repeat application. For best results, apply in spring or early summer when milfoil starts to grow. The timing can be checked by sampling the lake bottom in areas heavily infested with weeds the year before.

Subsurface Application: Apply 2.5 to 10 gallons per acre as a concentrate directly into the water through boat mounted distribution systems.

Surface Application: Apply 2.5 to 10 gallons per acre in a minimum spray volume of 5 gallons mix per acre.

Air Application: Use drift control spray equipment or thickening agents mixed into the spray solution. Apply 2.5 to 10 gallons per acre through standard boom systems with a minimum of 5 gallons of spray mix per acre. For MICROFOIL® drift control spray systems, apply in 12 to 15 gallons spray mix per acre.

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 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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HELENA CHEMICAL COMPANY 225 Schilling Blvd., Suite 300 Collierville, Tennessee 38017 Telephone: 901/761-0050

June 18, 2004

U.S. Environmental Protection Agency Document Processing Desk (NOTIF) Office of Pesticide Programs (7504C) 1921 Jefferson Davis Highway Crystal Mall #2, Room 266A Arlington, VA 22202

> RE: Weed Rhap A-4D EPA Reg. No. 5905-501 Notification

To Whom It May Concern,

Enclosed, you will find Helena Chemical Company's Notification for Weed Rhap A-4D (EPA Reg. No. 5905-501). Helena has added the weed Devils' claw (*Proboscidea* louisianica). This should also be noted on all alternate brand names of the master label Weed Rhap A-4D (#5905-501). In support of this Notification, you will find the following:

EPA Form 8570-1 1 copy of the revised label highlighted

If you have any questions, do not hesitate to call me at (901) 752-4420. Thank you for your assistance in this matter.

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Sincerely,

handy T. Sto

Mandy K. Styles Product Registration Supervisor