

5905-67

1/3/2003

1/7

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0080. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☒ Amendment  
☐ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number <b>5905-67</b>	2. EPA Product Manager <b>J. Tompkins</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>MSMA</b>	PM# <b>25</b>	
5. Name and Address of Applicant (Include ZIP Code) Helena Chemical Company 225 Schilling Boulevard, Suite 300 Collierville, Tennessee 38017 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. 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 - II

- ☒ Amendment - Explain below. ☐ Final printed labels in response to Agency letter dated \_\_\_\_\_
- ☐ Resubmission in response to Agency letter dated \_\_\_\_\_ ☐ "Me Too" Application.
- ☒ Notification - Explain below. ☐ Other - Explain below.

**NOTIFICATION**  
**JAN 3 - 2003**

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Amended draft labeling by notification per PR Notice 98-10 to correct typographical errors. Certification attached in correspondence.

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Emily Smathers Ratliff	Title Product Registration Supervisor	Telephone No. (Include Area Code) 901/752-4421
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Product Registration Supervisor	
4. Typed Name Emily Smathers Ratliff	5. Date 12/19/2002	

**HELENA CHEMICAL COMPANY**

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

12.26.02

**VIA FEDERAL EXPRESS**

December 19, 2002

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

**RE: AMENDMENT BY NOTIFICATION TO CORRECT TYPOGRAPHICAL/PRINTING ERROR**

1. 2,4-D AMINE	5905-72
2. 2,4-D LV ESTER	5905-93
3. 2,4-D LV ESTER 4	5905-90
4. 3 LB. CHLORATE DEFOLIANT-DESICCANT	5905-118
5. 3.5 LB. LIQUID COPPER CONCENTRATE	5905-483
6. 6 LB. SODIUM CHLORATE DEFOLIANT-DESICCANT	5905-461
7. ATRAZINE 4L	5905-470
8. ATRAZINE 90DF	5905-522
9. BRUSH RHAP LV 4-D HERBICIDE	5905-98
10. CITRUSPERSE SULPHUR	5905-350
11. COPPER-Z 6/2 GRANULAR	5905-524
12. DUSTING SULPHUR	5905-288
13. HELENA 3.5 LB LIQUID COPPER CONCENTRATE	5905-483
14. LIQUID SULFUR SIX	5905-437
15. MSMA PLUS HC	5905-164
16. MSMA PLUS	5905-66
17. MSMA ARSONATE LIQUID	5905-67
18. PAR F 70 SOLUBLE OIL	5905-520
19. SOL OIL 97	5905-294
20. WEED RHAP A-4D	5905-501
21. WEED RHAP A-6D	5905-503
22. WEED RHAP LOW VOLATILE GRANULAR D HERBICIDE	5905-507
23. WEED RHAP LV-6D	5905-508
24. WEED RHAP LV-4D	5905-505

Dear Sherada:

Attached is draft amended labeling for the above referenced Helena Chemical Company products. All of these products are being amended by notification as allowed by PR Notice 98-10. The change consists only of a correction to the First Aid Statement which had a typographical/printing error caused by copy and paste on all items (except Weed Rhap A-4D 5905-501 – we are also doing a warranty update on

Letter from Helena Chemical Company to Sherada Hobgood – U. S. EPA December 19, 2002

that label). Per the PM's on this topic, as well as Linda, this type of correction, which would usually be just a non-notification is better done by a notification in this case, therefore:

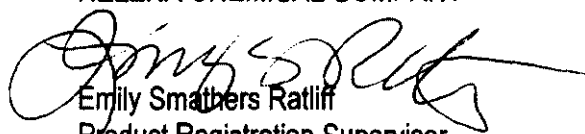
I hereby certify that these notifications are consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

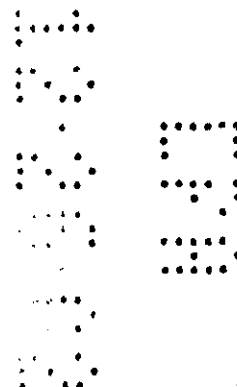
In support of this action, please find the following enclosed for each of the listed products:

1. EPA Form 8570-1 – Application for Registration for Each
2. Two (2) Copies of Draft Amended Labeling for Each

If there are any questions about this submission, please contact me at 901-752-4421. Thank you for your attention to and assistance with this matter.

Sincerely,  
HELENA CHEMICAL COMPANY

  
Emily Smathers Ratliff  
Product Registration Supervisor



**SPECIMEN LABEL****MSMA****ARSONATE LIQUID**

**ARSONATE LIQUID FOR POST EMERGENCE WEED CONTROL IN COTTON, CERTAIN FRUIT AND NUT CROPS, GRASS SEED CROPS, TURF GRASSES, FORESTRY, AND NON-CROP AREAS**

**ACTIVE INGREDIENTS:**

Monosodium Acid Methanearsonate ..... 51.0%

**INERT INGREDIENTS:** ..... 49.0%

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

Total Arsenic, all in water soluble form, expressed as elemental ..... 23.41%  
This product contains 6.6 lbs. MSMA per gallon

**KEEP OUT OF REACH OF CHILDREN****CAUTION****PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed, avoid breathing spray mist. May cause irritation of nose, throat and skin. Avoid contact with eyes, skin and clothing. Do not contaminate feed and food stuffs.

**FIRST AID**

**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 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.

**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.: 5905-67

NET CONTENTS:

EPA EST. NO.:

**MANUFACTURED BY**

**HELENA CHEMICAL COMPANY**

**225 SCHILLING BOULEVARD, SUITE 300**

**COLLIERVILLE TENNESSEE 38017**

**PERSONAL PROTECTIVE EQUIPMENT**

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

**Applicators and other handlers (other than mixers and loaders) must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Chemical-resistant footwear plus socks

For exposure in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G, or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter.

For exposures outdoors, a NIOSH approved respirator with any N, R, P, or HE filter.

**Mixers and loaders must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant apron when mixing or loading

For exposure in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G, or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter.

For exposures outdoors, a NIOSH approved respirator with any N, R, P, or HE filter.

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.

**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.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

**DIRECTIONS FOR USE**

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

**NOTIFICATION**

**JAN 3 - 2003**

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

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.

#### 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
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks

#### 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.

Keep children and pets out of treated areas until sprays have dried.

#### CHEMIGATION PROHIBITION

Do not use this product in any type irrigation system.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.  
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.  
**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### GENERAL INFORMATION

This product is a herbicide for use in cotton, fruit, nuts, golf-courses, turf, grass seed crops, forestry, and non-crop areas. This product does not contain a surfactant. A suitable non-ionic surfactant, approved for growing crops covered by this label should be added to the spray tank. Local conditions and recommendations vary; consult local agricultural experiment station or extension service weed specialists for recommendations in your area.

A partial list of weeds controlled with this product includes:

Bahiagrass	Dallisgrass	Nutsedge
Barnyardgrass	Foxtail	Pigweed
Brachiaria spp.	(Green & Yellow)	Puncturevine
Bullnettle	Goosegrass	Ragweed
Chickweed	Johnsongrass	Sandbur

Cocklebur*	Morningglory	Watergrass
Crabgrass		Wood Sorrel
(Smooth & Large)		

\*Arsenical resistant varieties may not be controlled.

See Golf Course and Turf Uses for weeds controlled at those sites.

#### APPLICATION METHODS

**MSMA** should be applied with a low volume sprayer having satisfactory pumping and bypass action. Nozzles should be placed so as to avoid spraying cotton foliage, but also to give good coverage of the weeds and grasses. Proper coverage is very important. Adjust nozzles to allow maximum coverage of weeds and grasses.

ADJUST NOZZLES TO DIRECT THE SPRAY IN A MANNER TO ALLOW MAXIMUM COVERAGE OF WEEDS, KEEP SPRAY OFF COTTON FOLIAGE.

#### MIXING INSTRUCTIONS

**MSMA** must be thoroughly dissolved. Fill the tank about half full with water and with the pump operating, add the required amount of **MSMA**, finish filling the tank with water and apply.

If preferred, **MSMA** can be pre-mixed by dissolving the required amount of **MSMA** and suitable non-ionic surfactant in 3 to 5 gallons of water in an open head bucket. This pre-mix should then be placed in the partly filled spray tank, and the tank filled.

Do not store spray solution in tank for a prolonged period. Clean application equipment thoroughly after use by flushing with water.

Helena Chemical Company makes no expressed or implied warranties. User relies on his own skill and judgement, and assumes all risk in use and handling.

**COTTON:** This product is useful for the control of weeds listed above and many similar weeds. Application can be made: 1)Preplant or postplant up to cracking of soil before cotton emergence using ground or aircraft equipment. 2)Postemergent, over the top, when cotton is 3 to 6 inches high or up to early first square stage, whichever occurs first using ground or aircraft equipment. 3)Postemergent as a directed spray with ground equipment when cotton is 3 inches high to first bloom.

**1) PREPLANT OR POSTPLANT UP TO CRACKING APPLICATION ON COTTON:** A single ground or aircraft application of this product can be made to prepared cotton seedbeds when planting has been delayed and weeds have emerged, or as a postplant treatment, BUT NO LATER THAN INITIAL CRACKING of soil in field before emergence of cotton. Planting of cotton may immediately follow the preplant application. Mix at the rate of 2½ pints of this product, plus manufacturer's recommended rate of suitable surfactant, in 40 gallons of water for ground equipment or in 5 to 10 gallons of water for aircraft application and apply using a properly calibrated sprayer to one acre. See SPECIAL PRECAUTIONS below.

**2) POSTEMERGENT APPLICATION ON COTTON USING GROUND OR AIRCRAFT EQUIPMENT AS IN AN OVER-THE-TOP BROADCAST SPRAY** when cotton is 3 inches high until early first square stage as a salvage operation. Mix at the rate of 1 to 1½ pints of this product, plus manufacturer's recommended rate of a suitable surfactant, in 40 gallons of water for ground equipment or in 5 to 10 gallons of water for aircraft application and apply using a properly calibrated sprayer to one acre. A second or repeat application, if needed, should be timed 1 to 3 weeks after the first application. APPLY ONLY AS A SALVAGE OPERATION. APPLY ONLY TO HEALTHY, RAPIDLY GROWING COTTON 3 INCHES HIGH, BUT NO

LATER THAN 6 INCHES HIGH OR EARLY SQUARE, WHICHEVER OCCURS FIRST. PREFERENCE SHOULD BE GIVEN TO DIRECTED SPRAYS. IN ORDER TO MINIMIZE INJURY, THE SECOND APPLICATION SHOULD BE MADE AS A DIRECTED SPRAY WHEN POSSIBLE. DO NOT make more than two (2) applications total of either DSMA or MSMA (or a combination) per season.

**3) POSTEMERGENT DIRECTED SPRAY APPLICATION ON COTTON** when weeds are small using ground equipment. Mix this product at the rate of 2½ pints, plus manufacturer's recommended rate of a suitable surfactant, in 40 gallons of water per acre. For band applications, apply 1 gallon of above diluted spray per acre for each 1 inch band width to be treated of cotton grown on 40 inch row spacing. A second or repeat application, if needed, should be timed about 1 to 3 weeks after the first application. Keep spray off cotton foliage. **APPLY ONLY WHEN COTTON IS 3 INCHES HIGH TO FIRST BLOOM. DO NOT APPLY AFTER FIRST BLOOM.**

Slight burning and reddish discoloration of cotton foliage may occasionally be seen following recommended treatment; however, cotton plants will develop normally.

**Special precautions:** DO NOT allow spray drift to contact adjacent crops or injury will result. Apply only on still days when weather conditions DO NOT favor drift from areas being treated. Aircraft application of this product should only be made by applicators experienced in use of herbicides, and application should be made in accordance with State and Federal regulations.

**Note:** Applications to cotton in Florida should be confined to band treatments.

**NON-BEARING FRUIT AND NUTS:** This product is effective as directed postemergence spray for control of the above listed weeds in non-bearing almond and walnut orchards and plantings of non-bearing apples, apricots, cherries, peaches, pears, plums, and prunes. Mix at a rate of 2½ pints of this product, plus manufacturer's recommended rate of a suitable surfactant, in 50 to 100 gallons of water, as needed for thorough coverage and apply to an area of one acre. For spot treatment of weeds, mix 2½ pints of this product, plus manufacturer's recommended rate of a suitable surfactant, in 50 gallons of water and apply to point of run-off. Application should be made when weeds are small during warm weather and when conditions are favorable for good weed growth. If regrowth occurs, repeat applications should be made, but not more than three applications per year. DO NOT allow spray solution to contact foliage, stems or bark of trees or vines. DO NOT use around trees or vines from which crops will be harvested within one year. DO NOT GRAZE TREATED AREAS. In Florida, use only as a spot treatment.

**CITRUS, BEARING AND NON-BEARING:** This herbicide is useful as a directed application in citrus orchards, such as orange, grapefruit, tangerine, lemon and lime orchards. It should be applied at the rate of 2½ to 5 pints per acre. Mix at the rate of 2½ pints, plus manufacturer's recommended rate of a suitable surfactant, in 50 gallons of water. Apply as a directed spray in interspaces and around base of trees. Spray unwanted vegetation to just short of run-off. If regrowth occurs, reapply as required; however, DO NOT exceed 3 applications per year. DO NOT allow spray solution to contact fruit, leaves, stems or bark. Use a shield, if necessary, for nursery plantings or young trees. In Florida, use only as a spot treatment.

**BLUEGRASS, FESCUE, & RYEGRASS GROWN FOR SEED** (Pacific Northwest): For control of wild oats and certain other broadleaf and grassy weeds, apply 5½ to 7½ pints of this product, plus

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manufacturer's recommended rate of a suitable surfactant, per acre in sufficient water for good coverage. Application can be made any time after weeds emerge and before grass has reached boot stage. Use on grasses grown for seed only. DO NOT USE MORE THAN ONE APPLICATION PER YEAR. DO NOT APPLY AFTER BOOT STAGE. DO NOT GRAZE TREATED CROP OR ALLOW HAY, SEEDS OR SEED SCREENINGS FROM TREATED CROP TO BE USED FOR FOOD OR FEED.

**GOLF COURSE AND ORNAMENTAL TURFGRASS:** This product can be used for selective control of Bahiagrass, Barnyardgrass, Chickweed, Smooth and Large Crabgrass, Dallisgrass, Nutsedge, Sandbur, and Wood Sorrel with little or no injury to well established, actively growing turfgrass. Mow turfgrass to a height of 1 to 1½ inches before treatment. On new lawns, do not treat until after three mowings. Mix at a rate of 2¼ to 2½ pints, plus manufacturer's recommended rate of a suitable surfactant, in 40 to 100 gallons of water for application to one acre. For small areas, mix 1 fluid ounce (2 tablespoons), plus manufacturer's recommended rate of a suitable surfactant, in 5 gallons of water for application to an area of 1,000 square feet. Application should be uniform and thorough to adequately wet all undesirable plants.

Two or more repeat treatments at 14-day intervals may be necessary. Make applications during warm weather when temperature is between 80 and 90 °. DO NOT water turf for at least 24 hours after application. Turfgrasses may be temporarily discolored. Bermudagrass, Bluegrass and Zoysiagrass have shown tolerance to properly applied MSMA. Injury may result if applied to Bentgrass and Fescues. DO NOT apply to St. Augustinegrass, Carpetgrass, Centipedegrass, or to Dichondra lawns. DO NOT reseed until 2 weeks after last application.

#### **FORESTRY:**

**GENERAL INFORMATION ON TREE CONTROL:** This product is designed for crown kill of undesirable trees through spaced-cut injection methods. It is useful for the control of the following conifers: Cedar, Douglas fir, Grand fir, Lodgepole pine, Ponderosa pine, Jack pine, Red pine, Silver pine, and Western hemlock. It is also useful for the control of Big leaf maple, but not most hardwoods. It shows negligible translocation through root grafts and has no residual phytotoxic action in the soil. Forked trees require individual treatment.

**CARE OF EQUIPMENT:** This product is entirely soluble in water. Rinse all injection equipment thoroughly after use.

#### **USE INSTRUCTIONS:**

##### **1. SPACED-CUT INJECTION WITH ANSUL "HYPO-HATCHET"**

**INJECTOR:** The Ansul HYPO-HATCHET injector cuts and injects in one operation. When a tree is struck with the injector, a pre-set amount of this product is injected automatically into the sapstream of the tree immediately after impact. The injector works by inertia and is designed to inject at least 1 milliliter of chemical per stroke. The cuts should be evenly spaced around the trunk to give proper distribution into the sapwood. For detailed instructions on how to use the Ansul HYDRO-HATCHET injector, refer to the Operation Manual.

**CONIFERS** (See General Information on Tree Control) **AND BIG LEAF MAPLE** (Growing Season): For trees less than 8 inches diameter at breast height (DBH), make one cut per 2 inches of DBH (4½" spacing between cut edges) at waist height or below. For trees 8 inches DBH and larger, make one cut per 1 inch DBH (1½" spacing between cut edges).

**CONIFERS** (Dormant Season): Make one cut per 1 inch of DBH (1½" spacing between cut edges) at waist height or below.

**BIG LEAF MAPLE (Dormant Season):** Make a complete frill at waist height or below (cuts need not be overlapping).

**2. SPACED-CUT APPLICATION:** Although spaced-cut application is facilitated by use of the Ansul HYDRO-HATCHET injector, a hatchet or similar cutting tool can be used to make horizontal frills. The number of cuts per tree depends upon the size of the cuts and the volume to be injected, but in any case, should be sufficient to hold the herbicide without running down the trunk. Make certain that each cut penetrates into the sapwood. Large trees with full crowns require almost overlapping frills to effect control. Apply this product with a pump-type oil can, plastic squeeze bottle, or other suitable dispenser.

**CONIFERS (See General Information on Tree Control) AND BIG LEAF MAPLE (Growing Season):** For trees less than 8 inches diameter breast height (DBH), apply 1 to 2 milliliters of this product per cut per 2 inches of DBH (6" spacing between cut centerlines) at waist height or below. For trees 8 inches DBH and larger, use 1 to 2 milliliters per cut per 1 inch DBH (3" spacing between centerlines).

**CONIFERS (Dormant Season):** Apply 1 to 2 milliliters of this product per cut per 1 inch of DBH (3" spacing between cut centerlines)

**BIG LEAF MAPLE (Dormant Season):** Apply 1 to 2 milliliters of this product per cut in a complete frill at waist height or below (cuts need not be overlapping).

1 fluid ounce = 29.57 milliliters

1 gallon = 3785 milliliters

**NON-CROP:** This product is effective in control of the above listed weeds and many similar weeds on drainage ditch banks, rights-of-way (including highway, railroad, pipeline, and utility), fence rows, golf course sand traps, storage yards and many similar non-crop areas. Application should be made when weeds are small and conditions are favorable for good weed growth. Mix at a rate of 2½ to 6 pints of this product, plus manufacturer's recommended rate of a suitable surfactant, in 40 to 50 gallons of water for application to one acre. Use higher rates and spray volume for dense weed growth. For small areas, use 1 to 2 fluid ounces in 5 gallons per 1,000 square feet. Spray undesirable vegetation thoroughly to point of runoff. Adequate coverage and complete wetting of foliage is important for effective control. Repeat applications may be necessary if regrowth occurs. Use only as spot treatment in Florida.

#### **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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