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5905-118

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 10 1994

JUDY OLDHAM
HELENA CHEMICAL COMPANY
6075 POPLAR AVE.
SUITE 500
MEMPHIS, TN 38119

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 8/17/93 In Response to PR Notice 93-7
EPA Reg. No. 5905-118
HELENA 3LB. CHLORATE DEFOLIANT-DESICCANT

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola ink on paper that
contains at least 50% recycled fiber

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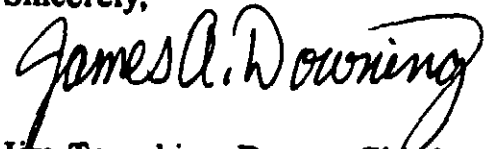
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

for 

Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Judy Oldham
HELENA CHEMICAL CO
6075 POPLAR AVE SUITE 500
MEMPHIS TN 38119

Comment for: EPA Reg Nr.5905-118
HELENA 3LB CHLORATE DEFOLIANT-DESICCANT

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

3 LB. CHLORATE DEFOLIANT DESICCANT

ACTIVE INGREDIENT:

Sodium Chlorate 27.50%

INERT INGREDIENTS: 72.50%

TOTAL 100.00%

1 Gallon of 3 LB. CHLORATE DEFOLIANT DESICCANT contains 3 pounds of Sodium Chlorate with a fire retardant

KEEP OUT OF REACH OF CHILDREN

CAUTION

Avoid contact with eyes, skin and clothing. In case of contact with product flush eyes with water. Avoid inhaling spray mist. May cause skin irritation. Avoid contamination of food stuffs. Harmful if swallowed. If swallowed call a physician immediately.

See Inside Panel For Additional Precautionary Statements

EPA REG. NO. 5905-118

EPA EST. NO.

ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB 10 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
5905-118

NET CONTENTS:

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

**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 stuff.

STATEMENT OF PRACTICAL TREATMENT

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

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation develops.

IF ON SKIN: ~~Immediately remove contaminated clothing, INCLUDING SHOES, and~~ wash skin with soap and plenty of water. If irritation develops, see a physician.

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 by disposal of equipment washwaters.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:
Long-sleeved shirt and long pants
Shoes plus socks

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

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

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.

CHEMIGATION PROHIBITION

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

DIRECTIONS FOR USE

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 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 requirements 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

BEST AVAILABLE COPY

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool dry area away from any heat or ignition source. Do not stack plastic containers (4 x 1 gal. or 2x2.5 gal.) over 2 pallets high. Do not stack metal containers over 4 pallets high. Move containers by handles or cases. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original containers only. Unloading storage and work areas must be as clean as possible to prevent contamination if spilled. If concentrate or spray solution is allowed to dry on flammable objects the chlorate component can act as an oxidizer. If the contents are leaking or material is spilled follow these steps:

1. Contain spill, absorb with a material such as saw dust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with water and soap to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Clothing contaminated with chlorate solution must be removed at once before solution dries. Dried contaminated clothes can be ignited easily. Wash contaminated clothing immediately.

Handwritten initials/signature

- 6. Do not allow run off to enter sewer or contaminate water supplies.
- 7. Dispose of waste as indicated below.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER: 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.

GENERAL INFORMATION

Weather conditions and plant conditions affect defoliation. Weather conditions that favor good defoliation are high temperature, high humidity, low wind velocity, high to adequate soil moisture. Plant conditions which favor good defoliation are ample fertility and moisture, complete insect control. Nutrients should be ample but not too much nitrogen. **LEAVES SHOULD BE GREEN AND TURGID (NOT WILTED, TOUGHENED OR STUNNED BY LACK OF FERTILIZERS).**

3 LB. CHLORATE DEFOLIANT DESICCANT may be applied by aircraft or ground equipment. It is important that the foliage be uniformly and thoroughly covered. The specified dilution rates should be carefully observed. A nonionic surfactant containing 80% or more surface active agent, such as **INDUCE**, at the rate of 1/4 to 1/2% v/v concentration may enhance results. Or, the addition of a nonionic crop oil concentrate containing 80-85% petroleum or vegetable based oil and 15-20% emulsifier, such as **AGRIDEX**, can be used at the rate of 1/2-1% v/v.

MATURITY - Boll load heavy, all bolls mature, vegetative growth ceased, little or no second growth. Conditions which contribute to poor defoliation are those adverse to the above.

DIRECTIONS

CHILIPEPPERS - Apply 1 to 2-1/2 gallons per acre in 5 to 15 gallons of water by aircraft and 20 to 40 gallons of water by ground rig. To be used on peppers for processing only. Apply 10 days before harvest. When grown for processing, consult a processor before applying.

CORN - 3 LB. SODIUM CHLORATE may be used as a harvest aid for desiccation of trashy weeds in early maturing corn. Use 2 gallons **3 LB. SODIUM CHLORATE** in 5 to 7 gallons of water per acre by air. Apply at least 14 days before anticipated harvest date on clear days when temperature is expected to go above 70° F. Use the 5 gallon rate when weeds are small and the crop canopy is fairly open.

NOTE: DO NOT graze treated fields or feed fodder, forage or residual seeds within 14 days of application.

COTTON: Defoliation - Apply 2 to 3 weeks prior to anticipated picking date. Do not treat later than 7 to 10 days prior to harvest. Thorough coverage of the plant is essential. A second application may be required under some conditions. **AIRPLANE APPLICATION** - 1 to 1-1/2 gals. per acre in sufficient water to make 5 to 10 gals. total solution per acre. Use the lower rate when plants and weather conditions are ideal for defoliation. Swath width should not exceed wing spread: altitude and speed of aircraft should be regulated to give spray coverage. Do not apply during periods of excessive wind as spray may drift and cause defoliation of adjoining cotton or injury to other crops.

Do not apply during very high temperature found in some areas at mid-day. **GROUND MACHINE APPLICATION:** 1 to 1-1/2 gals. per acre in sufficient water to make 20 to 30 gals. total solution per acre. Usually 6 to 8 nozzles per row are necessary to obtain good coverage of all leaves. Flush out equipment with water after each day's work. Cotton defoliants should be applied when 70% of the bolls are open. Poor defoliation often occurs under unfavorable weather, soil moisture, fertility and plant conditions. Uniform defoliation within a field may sometimes be difficult to obtain because of irregular plant maturity. Satisfactory defoliation may not be obtained when cotton plants are suffering from lack of moisture or when plant growth is retarded by cold weather. Do not graze treated areas or feed gin waste to livestock.

DRY BEANS: Apply at a rate of 2 gallons per acre in 5 to 10 gallons of water by air or 10 to 20 gallons of water by ground equipment. Thorough coverage is essential. Make application 7 - 10 days before anticipated harvest, longer if temperatures are cool. **DO NOT** graze treated fields or feed treated fodder or forage to livestock.

FLAX - For Use As A Harvest Aid: To desiccate trashy weeds and desiccate the mature crop, apply 2 gallons 3 LB. **SODIUM CHLORATE** per acre in enough water to give thorough coverage. Make application on bright, sunny days (preferably when temperature is above 60° F.) 7 to 10 days before anticipated harvest date. For air application, use minimum of 5 gallons ready-to-apply material per acre. Activity of the spray will be enhanced by the addition of a good nonionic surfactant at the rate of 1 quart per 100 gallons of spray. **DO NOT** graze treated fields or feed treated flax foliage or fodder for 14 days after application.

GRAIN SORGHUM: As a desiccant: apply 1-1/2 to 2 gallons per acre in 12 to 15 gallons of water 7 to 10 days before harvest.

GUAR BEANS - To facilitate harvest and reduce bean seed moisture: apply 2 gallons of 3 LB. **SODIUM CHLORATE** in enough water to provide thorough coverage either by aircraft or ground equipment. Make application 7-10 days before anticipated harvest date. Do not apply under conditions of extreme heat during the middle of the day. For air application, use 5-10 gallons of total solution per acre; for ground application use a minimum of 20 gallons of total solution per acre. **NOTE: DO NOT** graze treated fields or feed treated fodder or forage to livestock.

RICE - To facilitate harvest and reduce moisture in the fully mature seed heads, and to desiccate immature red rice in mature white rice: apply by air 1-1/4 to 2 gallons per acre in 5 or more gallons of water. Use the lower rate when crop conditions and weather are right to enhance rapid drying. Make application 7 to 10 days before anticipated harvest date. To avoid drift do not apply during windy weather. Thorough coverage of the crop is essential to achieve good results. **DO NOT** graze treated fields or feed treated straw or crop residues within 14 days of application.

SAFFLOWERS - To facilitate harvest and reduce moisture in the fully mature seed heads: apply 2 gallons in 5 to 10 gallons of water per acre by air or in 20 to 30 gallons by ground equipment. Make application 7 or more days before normal harvest when safflower heads are fully mature.

SOUTHERN PEAS - Apply at a rate of 2 gallons per acre in 5 to 10 gallons of water by air or 10 to 20 gallons by ground equipment. Thorough coverage is essential. Make application 7 to 10 days

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before anticipated harvest, longer if temperatures are cool. DO NOT graze treated fields or feed treated fodder or forage to livestock.

SOYBEANS: As a soybean harvest aid to dry weeds in early maturing soybeans and to facilitate the harvest: apply 2 gallons of 3 LB. SODIUM CHLORATE per acre in enough water to give thorough coverage; application may be made by ground equipment or aircraft. Make application 7 to 10 days before anticipated harvesting date when beans are mature and ready for harvest. For air application use a minimum of 5 gallons ready-to-apply spray solution per acre; for ground equipment apply a minimum of 20 gallons of ready-to-apply spray solution per acre. Do not graze treated fields or feed treated soybean foliage.

SUNFLOWER - To facilitate harvest and reduce moisture in the fully mature seed heads: apply 2 gallons in sufficient water to give good coverage. Make application 7 or more days before normal harvest when sunflower heads are fully mature. Apply in 5 to 10 gallons of water per acre by air or in 20 to 30 gallons of water per acre by ground with a high clearance sprayer. Do not apply later than 7 days before harvest. DO NOT graze treated fields or feed treated forage within 14 days of application.

MIXING: Agitate 3 LB. SODIUM CHLORATE DEFOLIANT-DESICCANT in water until completely dissolved. Use mechanical agitator.

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

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

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

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