

PM 90

5905-531

12/8/98

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division
(7501W) 401 M St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

5905-531

Date of Issuance:

DEC - 8 1998

NOTICE OF PESTICIDE:

 X Registration
 Reregistration

(under FIFRA, as amended)

DEC 10 1998

Term of Issuance:

Unconditional

Name of Pesticide Product:

Allityn™ Insect Repellent

Name and Address of Registrant (include ZIP Code):

Judy Oldham-Smith
Manager, Registration Services
Helena Chemical Company
6075 Poplar Avenue, Suite 500
Memphis, TN 38119

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

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

This product is unconditionally registered in accordance with FIFRA sec.3(c)(5) provided you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec.3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes below before you release the product for shipment:
 - a. On page 1, change the EPA Registration Number to read, "EPA Reg. No.5905-531"
 - b. On page 2, fifth line down under FIRST AID: correct the capitalization of "GET"
 - c. On page 3, sixth line down from the top: correct the spelling of "requirments"
3. Submit five copies of the revised final printed label for the record

Signature of Approving Official:

Date:

12/8/98

ALLITYN™

INSECT REPELLENT

FOR HOME GARDEN (OUTDOOR ONLY) AND AGRICULTURAL USES

ACTIVE INGREDIENT:

Garlic Juice Extracts 50.00%

INERT INGREDIENTS: 50.00%

TOTAL 100.00%

Contains 4.25 lbs. of garlic juice per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Other Precautionary Statements Inside

EPA REG. NO.:

EPA EST. NO.:

NET CONTENTS:

ACCEPTED
with COMMENTS
in EPA Letter Dated

DEC - 8 1998

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

SN 0897

5905-531

NET CONTENTS:

MANUFACTURED BY
HELENA CHEMICAL COMPANY
MEMPHIS, TN 38119

PRECAUTIONARY STATEMENTS
Hazards to Humans & Domestic Animals
CAUTION

Harmful if swallowed or absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

If in eyes: Flush with plenty of water. Call a physician if irritation persists.

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 gallons of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

If on skin: Wash with plenty of soap and water. Get medical attention if symptoms persist.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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 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.

USER SAFETY RECOMMENDATIONS

Wash hands before eating drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

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 contaminate water when cleaning equipment or disposing of equipment washwaters.

This product functions as an insect repellent and may repel pollinating bees. DO NOT apply less than three days before bee pollination is expected.

CHEMIGATION STATEMENT

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 regulations.

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 (REI). The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow workers entry into treated areas during the REI of 4 hours. PPE and work clothing required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks.

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 protect agricultural plants on farms, forests, nurseries, or greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

Pesticide Storage: The optimal storage temperature is between 35°F and 135°F to prevent product degradation. Do not freeze. Do not store in direct sunlight. Do not use or store near heat, open flame or hot surfaces. Keep out of reach of children or animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lid and close tightly.

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 incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

In the event of a major spill, fire or other emergency, call 800-424-9300 day or night.

GENERAL INFORMATION

ALLITYN is an extract of garlic that may function as an insect repellent when applied to a wide range of agricultural and ornamental plants. **ALLITYN** contains no synthetic chemical active ingredients, or inerts and is completely biodegradable. **ALLITYN** may be used alone or in combination with most pesticides and plant nutritional products. This product is not warranted to kill insects, but is to be used as a repellent.

RECOMMENDED USE RATES

Use **ALLITYN** at the rate of 1-2 pints/acre in 10 - 150 gallons total spray volume for ground applications. Use 1-2 pints/acre in 1 - 10 gallons of total spray volume for applications by air. Best results are obtained when **ALLITYN** is applied as pest pressures are anticipated or first become measurable. Repeat application between 7 and 14 days. Repeat applications are dependent upon the results of field scouting reports of insect pressures.

Do not make more than 21 applications of **ALLITYN** per growing season. Do not apply **ALLITYN** within 12 hours of harvest.

MIXING INFORMATION

Shake container well prior to use. Water used for spray mix preparation should be adjusted to a range of pH 5 - 7 prior to adding **ALLITYN**. Buffering or water conditioning agents, such as **QUEST®** or **BUFFER PS™** should be used to obtain the recommended pH range. Spraying mixes containing **ALLITYN** must be agitated at all times and should be applied within 12 hours of mixing.

SITES/PESTS VEGETABLES

COLE CROPS (BRASSICA LEAFY):

Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage, Canola, Cauliflower, Chinese Mustard, Collards, Kale, Kohlrabi, Mustard Greens, Rape. **Repelling:** Aphids, Beetles, Caterpillars, Loopers, Maggots, Weevils, Whiteflies.

CUCURBITS:

Cantaloupe, Casaba Melons, Cucumbers, Gherkins, Gourds, Honeydew Melons, Mango Melons, Muskmelons, Pumpkins, Summer Squash, Watermelons, Winter Squash. **Repelling:** Aphids, Beetles, Leafhoppers, Leafminers, Loopers, Mites, Pickleworms, Thrips, Whiteflies.

LEAFY VEGETABLES (EXCEPT BRASSICA):

Celery, Cress, Endive, Fennel, Lettuce, Orach, Spinach, Swiss Chard. **Repelling:** Aphids, Earworms, Grasshoppers, Leafhoppers, Leafminers, Loopers, Sowbugs, Webworms, Whiteflies.

ROOT, TUBER AND BULB VEGETABLES:

Artichokes, Beets, Burdock, Carrots, Cassava, Chicory, Garlic, Ginger, Ginseng, Horseradish, Leek, Onion, Parsley, Parsnip, Potato, Radish, Rutabaga, Salsify, Shallot, Sweet Potato, Tur-

nips, Yams. **Repelling:** Armyworms, Beetles, Chinch Bugs, Grasshoppers, Leafhoppers, Leafminers, Leafrollers, Maggots, Mealybugs, Mites, Plant Bugs, Sawflies, Scale, Slugs, Spittlebugs, Stem Girdlers, Thrips, Tree Crickets, Tortrix, Weevils, Whiteflies.

FRUITING VEGETABLES:

Bell Peppers, Chile Peppers, Cooking Peppers, Eggplant, Ground Cherry, Pepinos, Pimentos, Sweet Peppers, Tomatillo, Tomatoes. **Repelling:** Aphids, Beetles, Fruitworms, Hornworms, Leafminers, Loopers, Mealybugs, Mites, Plant Bugs, Whiteflies.

LEGUMES:

Beans including *Lupinus spp.*, *Phaseolus spp.* and *Vigna spp.*, Broad Beans, Chick Peas, Guar, Jackbean, Lablab Beans, Lentils, Peas, Soybeans. **Repelling:** Aphids, Beetles, Borers, Curculios, Earworms, Leafhoppers, Leafrollers, Loopers, Lygus Bugs, Maggots, Mites, Plant Bugs, Thrips, Whiteflies.

FIELD CROPS

CEREAL GRAINS:

Barley, Buckwheat, Corn, Millet, Oats, Popcorn, Rye, Wheat, Wild Rice. **Repelling:** Aphids, Armyworms, Beetles, Borers, Earworms, Grasshoppers, Maggots, Mites.

COTTON: **Repelling:** Aphids, Armyworms, Boll Weevils, Bollworms, Cotton Leafperforator, Fleahoppers, Loopers, Lygus Bugs, Mites, Saltmarsh Caterpillar, Thrips, Webworms, Whiteflies.

FORAGE: Alfalfa, Clovers, Grasses, Timothy, Vetch. **Repelling:** Aphids, Armyworms, Caterpillars, Chinch Bugs, Fleas, Grasshoppers, Japanese Beetles, Leafhoppers, Lygus Bugs, Mites, Spittlebugs, Thrips, Webworms, Weevils, Whiteflies.

PEANUTS: **Repelling:** Aphids, Armyworms, Beetles, Earworms, Leafhoppers, Mites, Thrips, Whiteflies.

TREE CROPS

CITRUS:

Calamondin, Grapefruits, Kumquats, Lemons, Limes, Oranges, Tangelos, Tangerines. **Repelling:** Aphids, Leafrollers, Mites, Scale, Thrips, Whiteflies.

NUT:

Almonds, Beech Nut, Brazil Nut, Butternut, Chestnut, Chinquapin, Filberts, Hickory Nut, Macadamia Nut, Pecan, Walnut. **Repelling:** Aphids, Beetles, Borers, Bud Moths, Carpenterworms, Casebearers, Catocalas, Curculios, Mites, Gall Wasps, Leafminers, Plant Bugs, Sawflies, Scale, Shuckworms, Spittlebugs, Twig Girdlers, Walnut Caterpillars, Webworms, Weevils, Whiteflies.

POME FRUIT:

Apple, Crabapple, Mayhaw, Pear, Quince. **Repelling:** Aphids, Appleworms, Casebearers, Codling Moths, Curculios, Leafhoppers, Leafminers, Leafrollers, Maggots, Mealy Bugs, Mites, Plant Bugs, Psylla, Sawflies, Scale, Whiteflies.

STONE FRUIT:

Apricots, Nectarines, Peaches, Plums, Sweet and Sour Cherries. **Repelling:** Aphids, Beetles, Borers, Fruit Flies, Fruit Moths, Leafminers, Leafrollers, Mites, Weevils, Whiteflies.

OTHER

HERBS: **Repelling:** Aphids, Armyworms, Beetles, Caterpillars, Hornworms, Leafminers, Loopers, Mealybugs, Mites, Plant Bugs, Thrips, Weevils, Whiteflies.

KIWI: **Repelling:** Aphids, Japanese Beetles, Loopers, Mealy Bugs, Mites, Thrips, Whiteflies.

SMALL FRUITS AND BERRIES:

Blackberries, Blueberries, Boysenberries, Cranberries, Currants, Dewberries, Elderberries, Gooseberries, Grapes, Huckleberries, Olallie Berries, Raspberries, Strawberries, Youngberries. **Repelling:** Ants, Aphids, Beetles, Borers, Cambium Miners, Chafer, Curculios, Earwings, Fruitworms, Grubs, Leafminers, Leafhoppers, Leafrollers, Maggots, Mealybugs, Mites, Plant Bugs, Sawflies, Scale, Slugs, Spittlebugs, Stem Girdlers, Thrips, Tree Crickets, Tortrix, Weevils, Whiteflies.

ORNAMENTALS**FLOWERS, SHRUBS, TREES:**

Repelling: Aphids, Bagworms, Beetles, Borers, Chafer, Curculios, Mites, Leafhoppers, Leafminers, Leafrollers, Maggots, Mealybugs, Plant Bugs, Sawflies, Scale, Spittlebugs, Thrips, Webworms, Whiteflies.

DECIDUOUS NURSERY STOCKS (TREES, SHRUBS, AND FLOWERS) AND GREENHOUSE CROPS. **Repelling:** Aphids, Bagworms, Beetles, Borers, Chafer, Curculios, Leafhoppers, Leafminers, Leafrollers, Maggots, Mealybugs, Mites, Plant Bugs, Sawflies, Scale, Spittlebugs, Thrips, Webworms, Whiteflies.

**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.

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