



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

JAN 31 1994

Beverley Neale  
HELENA CHEMICAL CO  
6075 Poplar Ave - Suite 500  
Memphis, TN 38119

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/31/93 in Response to PR Notice 93-7  
EPA Reg. No. 5905-196  
HELENA BRAND CYTHION THE PERMIUM GRADE MALATHION

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-Castle ink on paper that  
contains at least 50% recycled fiber

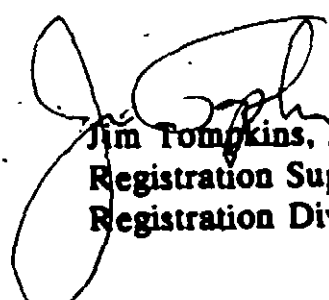
Submit the final printed labeling via the U.S. Postal Service to:

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,



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

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

Beverly Neale  
HELENA CHEMICAL CO  
6075 POPULAR AVE - SUITE 500  
MEMPHIS TN 38119

Subject: Label Amendment Submission of 08/31/93  
to Comply with WPS Labeling Requirements  
EPA Reg Nr. 5905-196  
HELENA BRAND CYTHION THE PERMIUM GRADE MALATHION

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

Remove the statement "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." from its current position within  
the Agricultural Use Box and place it above the Agricultural  
Use Box.

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EPA STAMPED ACCEPTED LABEL 4/17/91  
REVISED FOR WPS 8/27/93

# CYTHION®

## THE PREMIUM GRADE MALATHION

**ACTIVE INGREDIENT:**

\*Malathion: O,O-dimethyl phosphorodithioate of  
diethyl mercaptosuccinate..... 56.44%

**INERT INGREDIENTS\*\*** ..... 43.56%

**TOTAL**..... 100.00%

\*Also known as CYTHION  
(ONE GALLON OF CYTHION CONTAINS 5 POUNDS OF MALATHION)

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONS AND DIRECTIONS FOR USE.

EPA REG. NO. 5905-196  
EPA EST. NO.

NET CONTENTS;

Manufactured by  
**HELENA CHEMICAL COMPANY**  
MEMPHIS, TN. 38119

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
  
JAN 31 1994  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
5905-196

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

May be harmful if swallowed. Do not take internally. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, dust, or spray mist. Flush contaminated eyes with plenty of water and get medical attention if irritation persists.

**PERSONAL PROTECTIVE EQUIPMENT**

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

**Applicators and other handlers must wear:**

- Long-Sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate, Butyl Rubber, Nitrile Rubber or Viton.
- Shoes plus socks
- Protective Eyewear
- Chemical-resistant headgear for overhead exposure

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.

**USERS 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.

**STATEMENT OF PRACTICAL TREATMENT**

**Organophosphate**

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching the back of throat. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

**IF INHALED:** Remove victim to fresh air. Apply artificial respiration if indicated.

**IF IN EYES:** Flush eyes for at least 15 minutes with water. Call physician immediately.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water or wetlands (i.e., swamps, bogs, marshes, and potholes). Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water when

disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

**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. 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 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 such as Barrier Laminate, Butyl Rubber, Nitrile Rubber or Viton.
- Shoes plus socks
- Protective Eyewear
- Chemical-resistant headgear for overhead exposure

**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 area until sprays have dried.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in a dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved 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 other procedures approved by state and local authorities.

**DIRECTIONS FOR USE**

**ASPARAGUS:** Asparagus Beetle - 2 pts. Thrips - 1 1/2 - 2 pts. (Do not apply within 1 day of harvest.)

**BEANS (Lima, Green, Snap, Navy, Red Kidney, Wax, Cowpeas, Blackeyed Peas):** Mexican Bean Beetle - 1 1/2 pts. Spider Mites - 1 1/2 pts. Japanese Beetle\* - 1 1/2 - 2 pts. Aphids, Cucumber Beetle - 2 pts. \*Make 2 or more applications as needed. (Do not apply within 1 day of harvest.)

**DRY BEANS (California and Northwestern U.S.):** Lygus Bugs - 1 1/2 - 2 pts. (Do not apply within 1 day of harvest.)

**COLE CROPS AND LEAFY VEGETABLES:** Broccoli, Turnips (Do not apply within 3 days of harvest), Brussels Sprouts, Cabbage, Collards, Dandelions, Kale, Kohlrabi, Mustard Greens, Swiss Chard, Watercress (Do not apply within 7 days of harvest), Parsley (Do not apply within 21 days of harvest), Harlequin, Cabbage Bug (on Collards only) - 1 pt. Imported Cabbage Worm, Cabbage Looper, and Diamondback Moth.\* - \*For control of cabbage loopers, worms, and diamondback moths, CYTHION should be used in combination with other recommended insecticides.

**CELERY (Anise\* and fresh leaves and stalks only):** Aphids, Spider Mites - 1 1/2 pts. \*Not for use on seed and oil crop. (Do not apply within 7 days of harvest).

**LETTUCE:** Leafhoppers, Aphids - 2 pts. Cabbage Looper - 3 pts. (Do not apply to leaf lettuce within 14 days of harvest; Do not apply to head lettuce within 7 days of harvest.)

**SPINACH:** Aphids - 2 pts. (Do not apply within 7 days of harvest).

**CORN\* (Field, Sweet and Pop):** Aphids, Sap Beetle, Thrips, Grasshoppers, Corn Rootworm Adults (for protection of silks) - 1 1/2 pts. \*Injury may occur in the whorl or silk stage with Emulsifiable Liquid. (Do not apply within 5 days of harvest for grain or forage use.)

**CUCURBITS: Cucumbers:** Aphids, Spider Mites, Pickleworm - 1 1/2 pts. Cucumber Beetle - 3 pts. (Do not apply unless plants are dry.) (Apply uniformly over soil around base of plants.) (Do not apply within 1 day of harvest.)

**MELONS: (Cantaloupes, Casabas, Crenshaws, Honeydews, Honeyballs, Muskmelons, Watermelons, and Hybrid of these):** Aphids, Spider Mites - 1 1/2 pts. Cucumber Beetles - 2 pts. (Do not apply unless plants are dry.) (Do not apply within 1 day of harvest).

**PUMPKINS:** Aphids, Mites - 1 1/2 pts. Squash Vine Borers - 3 pts. (Do not apply unless plants are dry.) (Do not apply within 3 days of harvest.)

**SQUASH: Alfalfa Loopers,\*** - \*For control of loopers, CYTHION should be used in combination

with other recommended insecticides. **Aphids, Spider Mites - 1 1/2 pts. Pickleworm - 2 pts. Squash Vine Borers, Cucumber Beetles - 3 pts.** (Do not apply unless plants are dry.) (Do not apply within 1 day of harvest.)

**EGGPLANT:** Aphids, Spider Mites - 1 pt. Lace Bug - 3 pts. (Apply uniformly over soil around base of plant.) (Do not apply within 3 days on green onions.)

**BULK SPRAY TREATMENT - PEANUTS GOING INTO STORAGE:** Apply 2 1/2 pts. of 56.44% Premium Grade EC in 5 gals. of water per 15 tons of farmer's stock peanuts as they go into storage. Apply coarse spray uniformly. Preferably use a suitable mechanical spray applicator which regulates rate of application to flow of peanuts. Otherwise, adjust pressure and size of nozzle opening to rate of flow of peanuts.

**Supplemental Surface Spray:** After warehouse has been filled, level surface of peanuts before spraying. Apply surface spray using 1 1/4 lbs. of Premium Grade Malathion 25% WP in 2 gals. of water and apply at the rate of 2 gals. per 1000 sq. ft. of surface. Apply first treatment as soon as bin is filled and leveled, but not later than the first week in October. Apply the second surface treatment 1 month later, followed by treatments at 2 month intervals. Use a piston type power sprayer equipped with agitator and nozzle capable of delivering a coarse spray. Repeat surface application 60 days later if warm temperatures prevail. Otherwise, delay further treatment until late winter.

**Note:** Both EC and WP are to be used in the full program. Labels for EC should refer also to the WP part of the program and vice-versa.

For a residual wall, floor, and machinery spray in grain elevators, in treating truck beds, box cars, and ships holds before loading grain, apply 1 gallon of CYTHION per 25 gallons of water, making thorough application.

**COTTON:** Boll Weevil, Desert Spider Mite, Cotton Aphid, Leafhoppers, White Flies, Cotton Leafworm, Cotton Leaf Perforators, Thrips, Lygus Bugs - 1 - 2 qts. Fleahoppers - 1 - 1 1/2 pts. Fall Armyworms, Grasshoppers and Garden Webworms - 1 1/2 - 3 pts.

**MINT:** Aphids, Spider Mites, Leafhopper, Adult Flea Beetles, Caterpillars - 1 1/2 pts. (Do not apply within 7 days of harvest).

**PEANUTS:** Thrips - 1 1/2 pts. (Do not apply within 30 days of harvest).

**RICE:** Rice Leaf Miner - 2 1/2 pts. Rice Stink Bug - 1 - 1 1/2 pts. (Do not apply within 7 days of harvest.)

**SAFFLOWER:** Aphids, Lygus Bugs, Grasshoppers - 1 1/2 - 2 pts. (Do not apply within 7 days of harvest).

**SOYBEANS:** Mexican Bean Beetle - 2 1/2 - 3 pts. (Do not apply within 3 days of harvest).

**SUGAR BEETS:** Aphids, Spider Mites - 1 1/2 - 2 pts. Grasshoppers - 3 pts. (Do not apply within 7 days of harvest.)



**TOBACCO:** Aphids - 1 1/2 - 2 1/2 pts.

**VETCH:** Pea Aphid, Vetch Bruchid - 1 1/2 - 2 pts. (Do not apply within 7 days of harvest or pasturing.)

**ALFALFA:** Aphids, Potato Leafhopper, Spider Mites, Alfalfa Weevil Larvae, Spittlebug, Grasshoppers, Lygus Bug, Spotted Alfalfa Aphid - 1 1/2 - 2 pts. Clover Leaf Weevil - 1 1/2 pts. Pea Aphid - 1 pt. Armyworms - 2 pts. (Do not apply within 7 days of harvest).

**GARLIC LEEKS, SHALLOTS:** Aphids, Thrips - 1 1/2 - 2 pts. Apply uniformly over soil around base of plant.) (Do not apply within 3 days of harvest.)

**MUSHROOMS:** Mites - 2 1/2 pts. per 130 gals. OR 1 tbs. per 100 sq. ft. of bed. Phorid and sciarid flies - 2 1/2 pts. per 130 gals. or 1 tbs. per 100 sq. ft. of bed. Make thorough application as soon as possible after picking. Repeat applications as necessary, usually twice a week. (Do not apply within 1 day of harvest.)

**ONION:** Thrips - 1 1/2 pts. Onion Maggots - 2 1/2 pts. (Do not apply within 3 days on Green Onions.)

**PEAS & PEA VINES FOR STORAGE:** Pea Aphid - 1 1/2 pts. Pea Weevil - 1 1/2 - 2 pts. Make no application within 7 days of harvest if vines are to be used for animals feed. If vines are to be fed, application may be made within 3 days of harvest.

**PEAS:** Alfalfa Loopers, Celery Loopers - For Control of Loopers, CYTHION should be used in combination with other recommended insecticides. (Do not apply within 3 days of harvest).

**OKRA:** Aphids - 1 1/2 pts. Japanese Beetle - 2 pts. (Do not apply within 1 day of harvest).

**PEPPERS:** Aphids - 1 pt. Pepper Maggots - 2 1/2 pts. (Do not apply within 3 days of harvest.)

**POTATOES:** Aphids, Mealybugs, Leafhoppers - 1 pt. False Chinch Bugs - 1 1/2 pts.

#### ROOTCROPS

**BEETS\*:** Aphids - 1 1/2 pts. - 2 pts. \*If tops are to be used as feed. (Do not apply within 7 days of harvest.)

**CARROTS:** Aphids - 1 1/2 - 2 pts. Leafhoppers - 2 1/2 pts. (Do not apply within 7 days of harvest.)

**HORSERADISH, PARSNIPS:** Aphids - 1 1/2 - 2 pts. Apply uniformly over soil around base of plants.

**RADISH, SALSIFY:** Aphids - 1 1/2 - 2 pts. (Do not apply within 7 days of harvest).

**RUTABAGAS:** Aphids - 1 1/2 pts. (Do not apply within 3 days of harvest).

**SWEET POTATOES:** Leafhoppers - 1 1/2 - 2 pts. Morning-glory leafminers - 2 1/2 - 3 pts. (Do not apply within 3 days of harvest).

**APPLES\*:** Woolly Apple Aphid, Bud Moth - 1 pt. Green Apple Aphid, Rosy Apple Aphid - 1 1/2 pts. Mealy Bug - 1-2 pts. Codling Moth, Plum Curculio, Red-Banded Leaf Roller - 2 pts. (Do not apply within 3 days of harvest. May injure foliage on some varieties.) Forbes Scale - 1 pt. \*Consult local spray schedules for recommended combinations of CYTHON with other insecticides for control of insect complex on apples. CYTHON EMULSIFIABLE LIQUID may cause injury to McIntosh and Cortland varieties.

**(Delayed and delayed dormant sprays):** Woolly Apple Aphid, Green Apple Aphid, Rosy Apple Aphid, Mites - 1 pt. Red Banded Leaf Roller - 1 pt. of CYTHON plus 1 gallon of superior oil per 100 gals. of water. Make full coverage dormant or delayed dormant sprays only.

**APRICOTS:** Codling Moth, Orange tortrix, Terrapin Scale, Soft Brown Scale, Aphids - 1 1/2 - 2 pts. (Do not apply within 7 days of harvest).

**AVOCADOS:** Latania Scale, Greenhouse Thrips, Omniverous Looper, Orange Tortrix, Soft Brown Scale - 1 1/2 pts. (Do not apply within 7 days of harvest).

**CHERRIES:** Black Cherry Aphids, Fruit Tree Leaf Roller - 1 1/2 pts. Cherry Fruit Fly, Bud Moth - 1 pt. Injury may occur on certain varieties of sweet cherries particularly in the northwest. (Do not apply within 3 days of harvest. May injure foliage on some varieties.)

**CITRUS--(CONSULT LOCAL SPRAY SCHEDULES FOR RECOMMENDED VOLUMES OF SPRAY PER ACRE.)** Grapefruit, Lemons, Limes, Oranges, Tangerines, Tangelos, Kumquats: California Red Scale, Yellow Scale, Purple Scale, Black Scale (single and off brooded), Soft Scale, Citricola Scale - 1 - 1 1/2 pts. (Do not apply within 7 days of harvest.)

**FIGS:** Dried Fruit Beetles, Vinegar Beetles - 2 qts. plus 1-2 gals. unsulfurized molasses per acre. (Do not apply within 3 days of harvest).

**NOTE:** Rates per acre in sufficient water for thorough coverage. Injury may occur on grapes of Ribier, Italia, Cardinal and Almeria varieties when sprays containing CYTHON are applied after the clusters appear.

**NURSERY STOCK, GRAPE VINES:** Overwintering Grape Phylloxera. \* \*For the control of overwintering grape phylloxera on nursery stock grape vines, remove excess soil from the roots and dip in a solution made up of 1 to 1 1/2 pts. of CYTHON emulsifiable liquid in 50 gallons of water. Submerge the entire root system in the solution for 5 minutes. Keep the solution agitated at all times. Fifty gallons of solution will treat approximately 500 nursery stock grape vines. Do not apply within 3 days of harvest. Emulsion may cause injury to foliage on some varieties.

**NECTARINES:** Plum Curculio - 2 pts. Mites 1-2 pts. Application of this mixture should be made only in the petal fall period. (Do not apply within 7 days of harvest).

**PEACHES:** Oriental Fruit Moth, Plum Curculio, Terrapin Scale, Cottony Peach Scale - 2 pts. Green Peach Aphid, Black Cherry Aphid, Black Peach Aphid, Rusty Plum Aphid, Japanese

**Beetle - 1 pt.. (Do not apply within 7 days of harvest).**

**PEARS: Mealybug, Mites, Pear Psylla - 1-2 pts. Codling Moth, Plum Curculio, Fruit Tree Leaf Roller, Red-Banded Leaf Roller - 2 pts. (Do not apply within 7 days of harvest).**

**PLUMS & PRUNES: Mealy Plum Aphid, Plum Curculio, Mealy Plum Aphid - 1 pt. CYTHON should be used in combination with other recommended insecticides for control of these two pests.**

**Bud Moth - 1 pt. (Do not apply within 3 days of harvest).**

**PLUMS & PRUNES: (Dormant and delayed dormant sprays): Scale insects - 1 pt. of CYTHON plus 1 gal. superior oil per 100 gals. water. Make full coverage dormant or delayed dormant sprays only. (Do not apply within 3 days of harvest).**

**QUINCES: Plum Curculio, Codling Moth, Oriental Fruit Moth - 2 pts. Forbes Scale - 1 pt. Mites - 1-2 pts. (Do not apply within 3 days of harvest).**

**BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, RASPBERRIES: Mites, Thrips, Leafhoppers, Japanese Beetle - 1 1/2 pt. Aphids, Rose Scale - 3 pts. (Do not apply within 1 day of harvest.)**

**RASPBERRIES: Sap Beetle - 1 1/2 - 2 pts. (Do not apply within 1 day of harvest.)**

**BLUEBERRIES: Blueberry Maggot\***

**\*Blueberry Maggots in the Northeast - 1 pt. of CYTHON plus 1 1/2 qts. of Staley's Sauce Base #7 in 100 gals. of water per acre and apply by ground or air equipment. Preharvest interval - 8 hours.**

**BLUEBERRIES: Japanese Beetle - 1 1/2 pts.**

**CRANBERRIES: Leafhoppers, Black-headed Fireworm, Spittlebug Nymphs, Cranberry Fruitworms - 1 1/2 pts. Do not apply close to or during the bloom or berry-set period. Do not apply when foliage is wet.**

**STRAWBERRIES: Aphids, Spider Mites, Strawberry Root Weevil - 1 1/2 pts.\* \*Apply to soil surface before planting and work into top 6 to 8 inches. Lygus Bugs, Spittlebugs, Field Crickets, Thrips - 1 1/2 - 3 pts. Potato Leafhopper, Strawberry Leafroller, Whiteflies - 1 1/2 - 2 1/2 pts. (Do not apply within 3 days of harvest.)**

**ALMONDS\*: Aphids, Red Spiders - 1-2 pts. Peach Twig Borer - 1 - 1 1/2 pts. \*No more than 8 lbs. of actual CYTHON per acre should be applied to almond trees.**

**PECANS: Spider Mites, Aphids, Pecan Nut Casebearer, Pecan Phylloxera, Pecan Bud Moth - 1-2 pts.**

**ORNAMENTALS\*: Oyster Shell Scale, Lace Bug - 1 pt. Euonymus Scale - 1 - 1 1/2 pts. Aphids, Mealy Bugs, Spider Mites, Whitefly, Fourlined Leaf Bug, Japanese Beetle Adult, Potato Leafhopper, Tarnished Plant Bug, Thrips, Rose Leafhopper, European Pine, Shoot Moth, Scurfy Scale - 1 1/2 pts. \*Apply sufficient amount for good coverage. Birch Leaf Miner, Boxweed Leaf Miner, Bagworms, Tent Caterpillars, Azalea Scale, Oak Kermes\*, Pine Leaf Scale, Magnolia**

**Scale.** \*Apply when scale crawlers have settled on foliage. **Fletcher Scale\***, **Florida Red Scale\*** - 2 pts. \*Apply when scale crawlers have settled on foliage.

**Black Scale Crawlers, Monterey Pine Scale, Soft Scale - 2 1/2 pts. Pine Needle Scale - 4 pts. Wax Scale - 2 qts.\*** \*Apply in spring when crawlers are active. Repeat 1 or 2 full coverage applications at 10 days intervals. **NOTE:** Apply sufficient amount for good coverage.

**GREENHOUSE (in and around greenhouses and gardens): Millipedes, Springtails, Sowbugs - SEE NOTE - NOTE:** Mix 1 teaspoonfull of CYTHION in 1 gal. of water and apply to 150 square feet of soil surface or where insects congregate or apply dust at the rate of 1 lb. per 150 square feet of soil surface or where insects congregate. Repeat at 7 to 10 day intervals as needed.

**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.

**SUPPLEMENTAL LABELING**

**ALL APPLICABLE DIRECTIONS, RESTRICTIONS, AND PRECAUTIONS ON THE PACKAGE LABEL ARE TO BE FOLLOWED.**

**CYTHION, THE PREMIUM GRADE MALATHION  
5905-196**

**CAUTION**

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**CLOVER:** Aphids, Mites - 1 1/2 - 2 pts. Grasshoppers, Clover Leaf Weevil - 1 1/2 pts. (Do not apply within 7 days of harvest.

**GRASS CROPS**

**Grass & Grass Hay:** Grasshoppers, Aphids, Leafhoppers - 1 1/2 - 2 pts. or 1 1/2 pts. in 1 gal. diesel fuel oil\*. Armyworms - 2 pts. OR 1 1/2 pts. in 1 gal. diesel fuel oil\*. \*Apply by aircraft or turbine-blower sprayer.

**Pasture & Range Grass:** Grasshoppers, Aphids, Leafhoppers - 1 1/2 - 2 pts. OR 1 1/2 pts. in 1 gal. diesel fuel oil\*. \*Apply by aircraft or turbine-blower sprayers.

**Barn Grass, Canary Grass, Fescue, Orchard Grass, Red Top, Timothy, Yellow Foxtail:** Cereal Leaf Beetle - 1 - 1 1/2 pts.

**GRAIN CROPS**

**Barley, Corn, Wheat:** Cereal Leaf Beetle - 1 - 1 1/2 pts.

**Barley, Rye, Wheat:** English Grain Aphids, Greenbugs, Grasshoppers\* - 1 1/2 pts. \*Makes full coverage to batching areas when nymphs are young. Armyworms - 2 pts.

**NON-AGRICULTURAL LANDS (Wasteland, Roadsides, Soil Bank, Land not to be grazed):**

**Grasshoppers** - 1 1/2 - 3 pts. OR 1 1/2 - 3 pts. in 1 gal. diesel fuel oil\*. \*Apply by aircraft or turbine-blower sprayer. Repeat applications may be needed after hatching and before movements to crops take place.

**STORED GRAIN:**

**Wheat, Oats, Rice, Corn, Rye, Barley, Grain Sorghum, Field or Garden Seeds:** Confused Flour Beetle, Rice Weevil, Granary Weevil, Saw-toothed Grain Beetle, Flat Grain Beetle. Red Flour Beetle, Lesser Grain Borer, Indian Meal Moth - 1 pt. per 1000 bu. in 2-5 gals. water.

Apply **CYTHION, The Premium Grade Malathion 56.44% Emulsifiable Liquid** as follows:

**Residual Warehouse Spray - Before Storing Peanuts:** Clean warehouse thoroughly of trash and old remains of peanuts 1 to 2 weeks before new peanut crop is stored. Thoroughly spray with sufficient pressure interior of empty warehouse (including cracks and protected places) outside walls to height of 6 to 8 ft., and the ground to a distance of about 6 ft. from warehouse by diluting 1 pt. of **CYTHION, The Premium Grade Malathion** in sufficient water to make 2 1/2 gals. of spray or 1 gal. with 19 gals. or water. Apply finished spray at the rate of 2 gals. per 1000 sq. ft. or to runoff.