


Please read Instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

(A) 	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration	OPP Identifier Number <b>188644</b>
		<input checked="" type="checkbox"/> Amendment	
		<input type="checkbox"/> Other	

## Application for Pesticide:

## Section I

1. Company/Product Number <b>52251-6</b>	2. EPA Product Manager <b>LaRocca</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>OR-CAL Lindane 400</b>	PM# <b>13</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>Oregon-California Chemicals, Inc. 29454 Meadowview Rd. Junction City, Or 97448</b> <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

<input checked="" type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.

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

AMENDMENT TO MEET REQUIREMENTS OF PR NOTICE 93-3

LABEL NOT REVIEWED  
PER PR NOTICE 93-3

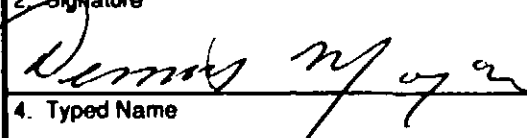
Amendment to meet requirements of PR notice 93-3

DATE 7/12/93

## 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
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted.	If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	No. per container	<input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
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 <b>Dennis Morgan</b>	Title <b>President</b>	Telephone No. (Include Area Code) <b>503-669-4413</b>
Certification 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 <b>President</b>	
4. Typed Name <b>Dennis Morgan</b>	5. Date <b>6-25-93</b>	

# GAMMA-MEAN 400

## RESTRICTED USE PESTICIDE

The use of this product may be hazardous to your health. This product contains Lindane, which has been determined to cause tumors in laboratory animals. Risks can be reduced by closely following the use directions and precautions, and by wearing the protective clothing specified elsewhere on this label. For retail sale to and use only by Certified Applicators or person under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

### ACTIVE INGREDIENT:

Lindane (Gamma Isomer of Benzene Hexachloride) . . . . . 40%

INERT INGREDIENTS . . . . . 60%

TOTAL . . . . . 100%

Contains petroleum distillates

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

KEEP OUT OF REACH OF  
CHILDREN

## WARNING AVISO

PRECAUTIONAL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada completamente

### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

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

IF ON SKIN: Remove contaminated clothing, and wash affected areas with plenty of soap and water. Get medical attention.

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

# GAMMA-MEAN 400

## PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

## WARNING

Causes (moderate) eye injury (irritation). Do not get in eyes, on skin, or on clothing. May be fatal if swallowed or absorbed through skin. Do not breathe vapor or spray mist. Use waterproof gloves, face shield or goggles, and protective clothing when handling. See also the specific uses for additional directions for protective clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse. Do not use on humans or household pets. Avoid exposure to children. Do not allow children to handle or apply this product. Do not allow children and pets in treated areas until surfaces are dry. For foliar application to agricultural crops whose culture involves hand labor there is a 24 hour re-entry period (see Re-entry Statement). Do not apply to food or forage nor to crops to be fed to dairy animals. Do not apply this product in such a manner as to directly or through drift expose workers.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, birds, and other wildlife. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

This pesticide is highly toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

## STORAGE AND DISPOSAL

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

STORAGE: Store in a cool, dry place. Keep container closed when not in use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

CONTAINER DISPOSAL: 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.

# GAMMA-MEAN 400

OREGON-CALIFORNIA CHEMICALS, INC.  
29454 MEADOWVIEW ROAD  
JUNCTION CITY, OREGON 97448  
503-489-4413  
EPA Reg. No. 52251-6

## RE-ENTRY STATEMENT

For foliar application to agricultural crops whose culture involves hand labor, do not enter treated areas without protective clothing until 24 hours after application. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Protective clothing means, at least, a hat or other suitable head covering, a long-sleeved shirt and long-legged trousers or a coverall type garment (all of closely woven fabric covering the body, including arms and legs), socks, and shoes.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must include the following information: 'WARNING. This area has been treated with Lindane. Do not enter without appropriate protective clothing. If accidentally exposed, remove contaminated clothing and wash the affected areas.' When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is a reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: 'WARNING. Area treated with Lindane on (date of application). Do not allow re-entry into treated areas until 24 hours after application unless appropriate protective clothing is worn. If accidentally exposed, remove contaminated clothing and wash the affected areas.'

## DIRECTIONS FOR USE

Use only according to attached label booklet instructions. It is a violation of federal law to use this product in a manner inconsistent with its label.

Where a dosage range is recommended, use the higher dosage when the weather is conducive to rapid insect growth (warm, humid weather) and when the plants are in full foliage. Either use the entire container at one time, but do not exceed recommended rates, or after storing partially used container, mix thoroughly before use.

Apply in sufficient volume of water to provide good coverage with available equipment in either dilute sprays or in concentrate ground sprays. Aerial application of Lindane is prohibited.

NOTIFICATION  
LABEL NOT REVIEWED  
PER PM NOTICE 10-4

DATE

7/12/93

ALL APPLICABLE DIRECTIONS, RESTRICTIONS, AND PRECAUTIONS ON THE LABEL ARE TO BE FOLLOWED:

## SEED TREATMENT

Either use entire container at one time, but do not exceed recommended rates; or, after storing partially used container, mix thoroughly before use. Do not combine water suspensions, wettable powders or emulsifiable concentrates unless previous experience assures compatibility.

This product is to be used in liquid or slurry treaters, or on the farm planter box treatment.

Treated seed or seed screenings must not be used for or mixed with food or animal feed, or processed for oil. Seed commercially treated with GAMMA-MEAN 400 must be labeled in accordance with all applicable requirements of the Federal Seed Act.

**WARNING:** Applicators who apply this product manually or without the use of closed system treatment procedure must wear the following protective clothing during the application process: long-sleeved shirt; long pants; gloves; and a disposable, paper dust mask which covers at least one-third of the face. This product should be applied only in a well-ventilated area.

In order that residues on food and forage crops will not exceed established tolerances, use only at recommended rates.

This product will protect seeds and seedlings against damage from Seedcorn beetle, Seed corn maggot, White grubs, Wireworm.

TYPE OF SEED	DOSEAGE RATE PER 100 LBS SEED
Corn	4.0 fl. oz.
Peas	2.5 fl. oz.
Wheat, Oats, Barley, Rye	1.0 fl. oz.
Cucumbers, Watermelons,	
Cantaloupes	3.6 fl. oz.
Cabbage, Cauliflower, Broccoli,	
Brussels-Sprouts	3.6 fl. oz.
Carrots, Onions	2.5 fl. oz.
Sugar Beets, Beets	8.0 fl. oz.
Beans	1.0 fl. oz.
Soybeans	1.0 fl. oz.
Sunflowers	2.0 fl. oz.
Cotton:	
Acid Delinted or Reginned	4.0 fl. oz.
Fuzzy Not Delinted	5.5 fl. oz.
Lentils	2.0 fl. oz.
Safflower	1.0 fl. oz.
Radishes	1.0 fl. oz.
Sudan Grass	1.0 fl. oz.

**NOTE:** The purchaser of this product is responsible for insuring that all seed treated with this prod-

uct are adequately dyed with a suitable color to prevent its accidental use as food for man or feed for animals. Refer to 21 CFR, Part 2.25. Any dye added to treated seed must be cleared for use under 40 CFR, Part 180.1001.

Labels for commercially treated seed should include the following addition to the Environmental Hazards statements: "Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water."

## DIRECTIONS FOR USE:

Only seed of high germination with good vigor should be treated with GAMMA-MEAN 400. Poor seed may suffer greater injury. Treat seed not over 6 weeks before planting. Store treated seed in a dry place until planted so that excess moisture will evaporate. If seed is stacked when wet, heat may develop which could impair germination.

The common methods of treating seed are slurry and planter box. For slurry treatment, apply in a slurry-type treater specifically designed and approved for that purpose or apply by hand in any suitable mixing equipment, such as home-made rotary drums. For planter box method, fill the box only half full of seed and half the required amount of Lindane and mix thoroughly with a stick. Then add the remainder of the seed to the box and add the rest of the required amount of GAMMA-MEAN 400 to the seed, again mixing thoroughly.

Treated seed or seed screenings must not be used for or mixed with food or animal feed, or processed for oil. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting.

Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of all excess treated seeds by burial away from bodies of water

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

## ORNAMENTALS

- **ORNAMENTAL LAWNS:** (Golf courses, Parks, Athletic Fields, Commercial and Residential Turf Areas.)

**FOLIAR APPLICATION:** Ants (i.e. Acrobat ants, Argentine ants, Buckley ants, Carpenter ants, Crazy ants, Field ants, Harvester ants, Leaf-cutting ants, Little black ants, Pavement ants, Pharaoh ants, Sugar ants), Armyworms, Billbugs (larvae), Cockroaches (i.e. American cockroaches, Asian cockroaches, Australian Cockroaches, Brown cockroaches, Brown-banded cockroaches, Field cockroaches, German cockroaches, Oriental cockroaches, Smokey Brown cockroaches, Wood roaches), Crickets (including Mole crickets), Cutworms, Flea hoppers (larvae), Fleas, Leafhoppers, Otiorhynchus weevils (larvae), Spittlebugs, Sod webworms, Spiders, Symphylans, Ticks, Thrips, White Grubs, Wireworms.

Use 1/4 pint per 5000 sq. ft. in at least 12 gallons of water. (This is equivalent to 1 quart in 100 gallons of water per acre, or 1 pound of active ingredient per acre.) Application to established lawns. Mow lawn and water thoroughly 1 to 2 days prior to treatment. On dichondra and matted grass lawns, sprinkle lightly immediately after treatment to improve effectiveness. Heavy watering or irrigation should be withheld for 2 to 3 days following treatment. Repeat at 4 to 6 week intervals if needed.

**WARNING:** Keep children and pets off treated areas until material has been washed into the soil and the grass is completely dried. Recreational areas such as parks and athletic fields must be posted when treated. Posted notice should say: **'PLEASE STAY OFF GRASS UNTIL DRY - INSECTICIDE TREATMENT.'**

**WARNING:** Applicators must wear water resistant hat, lightweight protective suit or coveralls, unlined waterproof gloves (natural rubber, neoprene, or polyethylene), and unlined lightweight boots. Mixer/loaders must wear goggles or a face shield, waterproof apron, and unlined waterproof gloves.

- **ORNAMENTAL PLANTS & TREES:**

Aborvitae, Ash, Aster, Azalea, Beech, Boxelder, Boxwood, Camellia, Carnation, Chestnut, Chrysanthemum, Coleus, Cottonwood, Dahlie, Dairy, Delphinium, Dogwood, Elm, Euonymus, Fir, Flowering cherry, Flowering ornamental fruit trees, Forsythia, Gardenia, Geranium, Gladiolus, Hawthorn, Heather, Hemlock, Hibiscus, Holly, Horse chestnut, Hydrangea, Iris, Japanese black pine, Juniper, Larkspur, Lilac Lily, Linden, Lo-

cust, Maple, Mountain ash, Narcissus, Nasturtium, Oak, Ornamental and/or shade trees, Ornamental deciduous trees, Pansy, Peony, Petunia, Pine, Poinsettia, Primrose, Pyracantha, Rhododendron, Rose, Sycamore, Snapdragon, Spirea, Sweet Pea, Tulip, Willow, Yew, Zinnia.

**FOLIAR APPLICATION:** Ants (i.e. Acrobat ants, Argentine ants, Buckley ants, Carpenter ants, Crazy ants, Field ants, Harvester ants, Leaf-cutting ants, Little black ants, Pavement ants, Pharaoh ants, Sugar ants), Aphids, Armyworms, Black vine weevils, Blister beetles, Boxwood leafminers, Boxwood psyllids, Cabbage loopers, Cockroaches (i.e. American cockroaches, Asian cockroaches, Australian Cockroaches, Brown cockroaches, Brown-banded cockroaches, Field cockroaches, German cockroaches, Oriental cockroaches, Smokey Brown cockroaches, Wood roaches), Cucumber beetles, Diabrotica beetles, Flea beetle larvae, Fuller rose beetles, Grasshoppers, Japanese beetles, Lace bugs, Leaf hoppers, Leafminers, Leaf rollers, Plant bugs, Psyllids, Rose chafers, Rose leaf beetles, Spittlebugs, Strawberry root weevils (adults), Symphylans, Tarnished plant bugs, Thrips, White flies.

Use 1/2 pint per acre, apply in sufficient water for thorough coverage. Repeat applications as necessary or as indicated, depending upon size, density of plants and infestation.

**FOLIAR APPLICATION:** Iris borers, Twig girdlers.

Use 1 1/4 pints per acre, apply in sufficient water for thorough coverage. Repeat applications as necessary or as indicated, depending upon size, density of plants and infestation.

**BARK APPLICATION:** Pine bark adelgids, Douglas fir beetles, Mountain pine beetles, Western pine beetles, Twined chestnut borers, Carpenterworms, Elm borers, Pine root collar weevils, White pine weevils, Sugar maple borers, Bark beetles, Black turpentine beetles.

Use 3 pints in 100 gallons of water. Spray trunk and branches of growing trees. Apply when immature adelgids are present. Repeat in 10 to 14 days. A minimum of 3 applications is necessary for effective control; May 10 to 15, June 1 and July 1.

**BARK APPLICATION:** Lilac borers, Bronze birch borers, Locust borer, Woodborer insects, Roundheaded borers, Zimmerman pine moths, Honeylocust borers, Red turpentine beetles, Rhododendron borers, Roundheaded Appletree borers.

Use 1 to 1 1/4 pints in 100 gallons of water. Spray trunk and branches of growing trees. A minimum of 3 applications is necessary for effective control; May 10 to 15, June 1 and July 1.

**BARK APPLICATION:** Carpenterworms, Dogwood borers, Leopard moths, Azalea stemborers, Flatheaded wood borers, Roundheaded wood borers, Flatheaded appletree borers.

Use 1 1/2 pints in 100 gallons of water. Spray trunk and branches of growing trees. A minimum of 3 applications is necessary for effective control; May 10 to 15, June 1 and July 1. For White pine weevils use as a delayed dormant application. Apply thoroughly to entire tree in late April when buds swell.

**BULB APPLICATION:** Aphids, Bulb flies, European corn borers, Iris borers, Thrips, Wireworms.

Use 1/2 pint in 100 gallons of water. Apply as a spray when pest first appear and repeat as needed.

**SOIL TREATMENT:** Billbug larvae, Webworms, Wireworms, Cutworms.

Use 1 gallon per acre. Apply in sufficient water for thorough coverage. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

**WARNING:** This material is toxic to many plants. Use should be made cautiously until the matter of phytotoxicity is determined. Do not use on birch or aspen.

**WARNING:** Applicators must wear water resistant hat, lightweight protective suit or coverall, unlined waterproof gloves (natural rubber, neoprene, or polyethylene), and unlined lightweight boots. Mixer/loaders must wear goggles or a face shield, waterproof apron, and unlined waterproof gloves.

- **ORNAMENTAL EVERGREENS:**

Austrian Pine, Christmas tree plantations, Douglas fir, Monterey pine, Ponderosa, Scotch pine, Southern yellow pine, Spruce (including Norway spruce and White spruce), White fir, White pine.

**FOLIAR APPLICATION:** Aphids (including Balsam twig aphids and White pine aphids) Birch leafminers, Elm leafminers, European hornets, Lace bugs, Psyllids, Spittlebugs, Strawberry root weevils (adults), Thrips.

Use 1 1/2 pints per acre in sufficient water for thorough coverage. Apply in spring when buds begin to break. Repeat in 10 to 14 days. For Aphids, apply when present in summer and fall.

Austrian Pine.

**BARK APPLICATION:** Pine bark adelgid.

Use 1/4 pint in 100 gallons of water. Apply when immature adelgids are present.

**SOIL TREATMENT:** Billbug larvae, Webworms, Wireworms, Cutworms.

Use 1 gallon per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

**WARNING:** This material is toxic to many plants. Use should be made cautiously until the matter of

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phytotoxicity is determined. Do not use on birch or aspen.

**WARNING:** Applicators must wear water resistant hat, lightweight protective suit or coverall, unlined waterproof gloves (natural rubber, neoprene, or polyethylene), and unlined lightweight boots. Mixer/loaders must wear goggles or a face shield, waterproof apron, and unlined waterproof gloves.



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

## FRUITS

**WARNING:** Lindane may cause off-flavor and odor to certain edible crops. Do not apply to any crop not listed in this booklet.

### FOLIAR APPLICATIONS:

#### • APPLES

**FOLIAR APPLICATION:** Aphids, Flea beetles, Grasshoppers, Lygus bugs, Thrips.

Use 1/2 pint in 100 gallons of water, apply in sufficient water for thorough coverage. It may be used as late as petal fall for control of rosy aphid. Do not apply more than 7 pints per acre. Do not apply within 60 days of harvest.

#### • CHERRIES

**FOLIAR APPLICATION:** Aphids, Flea beetles, Plum curculio, Thrips.

Use 1/4 pint in 100 gallons of water, apply in sufficient water for thorough coverage. It may be used as late as petal fall for control of rosy aphid. Do not apply more than 2 pints per acre. Do not apply to foliage or fruit after fruit starts to form. Do not apply within 60 days of harvest.

#### • GRAPES

**FOLIAR APPLICATION:** Grape phylloxera (leaf form only).

Use 1 quart per acre, apply in sufficient water for thorough coverage. Do not use later than one month after bloom.

#### • PEACH

**FOLIAR APPLICATION:** Aphids, Leafrollers, Plum curculio, Thrips.

Use 1/2 pint in 100 gallons of water, apply in sufficient water for thorough coverage. Do not apply more than 1 1/4 pints per acre. Do not apply later than 7 days after shuck split. Do not use within 60 days of harvest.

#### • PEARS

**FOLIAR APPLICATION:** Aphids, Flea beetles, Plum curculio, Thrips.

Use 1/2 pint in 100 gallons of water. Apply in sufficient water for thorough coverage. Do not apply more than 1 1/4 pints per acre. Do not use within 60 days of harvest.

**FOLIAR APPLICATION:** Pear psylla (except California)

Use 1 pint in 100 gallons of water, apply in sufficient water for thorough coverage. Do not apply more

than 4 pints per acre. Do not use within 60 days of harvest.

#### • PLUMS

**FOLIAR APPLICATION:** Aphids, Leafrollers, Plum curculio, Thrips.

Use 1/2 pint in 100 gallons of water, apply in sufficient water for thorough coverage. Do not use more than 3 pints per acre. Do not use within 60 days of harvest.

#### • PRUNES

**FOLIAR APPLICATION:** Aphids.

Use 1/2 pint in 100 gallons of water. Apply in sufficient water for thorough coverage. Do not use more than 1 1/4 pints per acre. Do not use within 60 days of harvest.

#### • STRAWBERRIES

**FOLIAR APPLICATION:** Spittlebugs, Weevils.

Use 1/8 pint per acre, apply in sufficient water for thorough coverage. Apply in the spring when first leaves appear. Repeat at 5 to 10 day intervals. DO NOT APPLY AFTER FRUIT STARTS TO FORM.

### BARK APPLICATIONS

#### • APPLES, CHERRIES, PEACHES, PEARS, PLUMS

**BARK APPLICATION:** Flatheaded apple tree borer, Peachtree borer, Roundheaded apple tree borer, Shot hole borer.

Use 1 1/2 pints in 100 gallons of water. Apply to bark of tree and large limbs in spring. First application should be made between July 10 and 15 followed by 2 subsequent applications at 21 to 28 day intervals. Apply to trunk, crotch to ground. Soak bark to the point of runoff. Do not apply within 60 days of harvest.

For Roundheaded apple tree borer, apply at the beginning of the larval stage or during the pupal stage at both of which times the pest are located just under the bark. Consult your State Agricultural Extension Service to determine the life cycle of the borer to be controlled. For Flatheaded apple tree borer, apply as soon as symptoms are first observed. The symptoms can include a damp spot on the bark at the point of early infestation, developing until the sap drips from the spot; discoloration of bark overlying the tunnel; feces at the entrance to or just below the tunnels. If treated areas have not dried within 7 to 10 days, treatment should be repeated.

#### • APRICOT

**BARK APPLICATION:** Peachtree borer.

Use 1 1/4 pints in 100 gallons of water for bark application. Apply to trunk and lower branches from crotch to ground. Do not apply to fruit or

foliage. Apply in late spring or early summer. Do not apply within 60 days of harvest.

### SOIL APPLICATIONS

#### • STRAWBERRIES

Cutworms, Diabrotica beetles (larvae), Garden symphylans, White grubs, Wireworms.

**PREPLANT SOIL APPLICATION:** Use 1/2 to 1 pint per acre in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

**SOIL APPLICATION:** Apply in fall after last harvest but before October 1. Use 1/4 pint per acre, apply in sufficient water for thorough coverage. Apply as a 10 to 12 inch band over the row.

### WARNING

**SOIL APPLICATION:** Do not make soil application to root crops, which might absorb a musty flavor. Do not apply in soil which will be planted to root crops (except potatoes) within 1 year. Do not use in soil which will be planted to potatoes within 2 years.

**WARNING:** Applicators must wear water resistant hat, lightweight protective suit or coverall, unlined waterproof gloves (natural rubber, neoprene, or polyethylene), and unlined lightweight boots. Mixer/loaders must wear goggles or a face shield, waterproof apron, and unlined waterproof gloves.

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

## LIVESTOCK BUILDINGS AND PENS

Ants, Bed bug complex, Cockroaches, Fleas, Flies (including House fly and Stable fly), Gnats, Midges, Mosquitoes, Silverfishes, Spiders, Ticks

**Spray application:** Use 1 quart in 100 gallons of water. Residual premise treatment. For crawling insects thoroughly spray all baseboards, cracks, floors, and other places where pest hide, also spray any pest present. For flying insects apply as a coarse spray to walls, ceilings beams, screens window frames, partitions, and similar places where pest congregate. Repeat as needed. Applications may be made to interior and exterior surfaces, adjacent fences, and weedy foliage. Do not allow livestock to graze treated foliage. Do not use in dairy barns or poultry houses. Cover feed and water troughs before spraying or wash thoroughly with a pressure hose before spray deposit dries. Remove animals prior to application.

**WARNING:** Applicators must wear water resistant hat, lightweight protective suit or coverall, unlined waterproof gloves (natural rubber, neoprene, or polyethylene), and unlined lightweight boots, and an MSHA/OSHA approved respirator. Mixer/loaders must wear goggles or a face shield, waterproof apron, and unlined waterproof gloves.

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

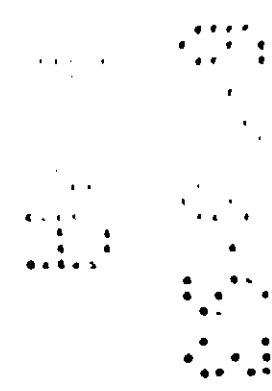
## BEEF CATTLE

Ticks, Hornflies, Screwworms, Spine ear ticks.

Use 7 and 1/2 ounces per 100 gallons for dip. Used dip solutions must be disposed of in accordance with the Resource Conservation and Recovery Act (RCRA). If the applicator generates more than 1000 kg (2200 lbs) of used dip solution per month, or more than 1000 kg (2200 lbs) of used dip solution in combination with other hazardous waste, the material must be treated as hazardous waste subject to subpart C of RCRA. Any user who wishes to treat, store or dispose of hazardous waste must obtain a permit to serve as a hazardous waste facility pursuant to RCRA. Do not apply to dairy cattle. Do not dip animals within 60 days of slaughter, do not apply to animals within 30 days of giving birth to young, nor for at least 3 weeks thereafter. Do not treat nursing animals. Do not apply to calves less than 3 months old. Do not treat animals in cold stormy weather. Do not treat overheated or sick animals. Make sure animals are well watered prior to being dipped to prevent them from drinking the treating dip. Thoroughly stir the treating vat before using. If any separation of emulsion occurs, do not use the dip.

Do not apply to feed forage to be fed or grazed by livestock or poultry, do not contaminate feed or food crops. Do not use on poultry or in poultry houses. Do not use in dairies or on dairy animals.

**WARNING:** Applicators must wear water resistant hat, lightweight protective suit or coverall, unlined waterproof gloves (natural rubber, neoprene, or polyethylene), and unlined lightweight boots. Mixer/loaders must wear goggles or a face shield, waterproof apron, and unlined waterproof gloves.



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

## VEGETABLES

Apply in sufficient volume of water (maximum of 100 gallons per acre) to provide good coverage with available equipment in either dilute sprays or in concentrate ground sprays. Good irrigation is required to prevent plant burn. Do not apply through any type of irrigation system.

### ● ASPARAGUS

**FOLIAR APPLICATION:** Asparagus beetles, Thrips.

Use 1 pint per acre, apply in sufficient water for thorough coverage. Spray seedlings and post harvest cutting.

### ● BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER

**FOLIAR APPLICATION:** Aphids, Cabbage loopers, Climbing cutworms, Flea beetles, Imported cabbage worms, Leafminers (including Serpentine leafminers), Plant bugs, Southern cabbage worms, Thrips.

Use 1 pint per acre, apply in sufficient water for thorough coverage. Do not apply after edible parts start to form.

**SOIL APPLICATION:** Cabbage maggots.

Use 2 pints per acre, apply in sufficient water for thorough coverage. Apply to soil around base of plants.

**PREPLANT SOIL APPLICATION:** Cutworms, Diabrotica beetles (larvae), White grubs, Wireworms.

Use 1 pint per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

### ● CELERY

**FOLIAR APPLICATION:** Aphids, Caterpillars (including Climbing cutworms), Celery leafhoppers (larvae), Celery loopers (larvae), Cucumber beetles, False celery leafhoppers, Flea beetles, Leafminers, Parsleyworms, Tarnished plant bugs, Thrips.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Do not apply when plants are half grown or begin to bunch.

**PREPLANT SOIL APPLICATION:** Cutworms, Diabrotica beetles (larvae), White grubs, Wireworms.

Use 1/2 to 2 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches

of soil. For garden symphylans, apply the higher dosage for heavy infestation.

### ● COLLARDS

**FOLIAR APPLICATION:** Aphids, Cabbage loopers, Climbing cutworms, Flea beetles, Imported cabbage worms, Leafminers (including Serpentine leafminers), Plant bugs, Southern cabbage worms, Thrips. (except Georgia)

Use 1 pint per acre, apply in sufficient water for thorough coverage. Do not apply after edible parts start to form.

**PREPLANT SOIL APPLICATION:** Cutworms, White grubs, Wireworms.

Use 2 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

### ● CUCUMBERS

**FOLIAR APPLICATION:** Aphids, Climbing cutworms, Cucumber beetles, Grasshoppers, Leafminers, Lygus bugs, Melonworms, Pickleworms, Plant bugs, Squash bugs, Squash vine borers, Thrips.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Apply when plants first break through the ground or when plants are about 1 inch in height. Repeat as needed. For Cucumber beetles and Thrips, apply the lower dosage of the range. For Melonworms and Pickleworms, apply when worms are first seen in the blossoms and repeat at 7 day intervals or as needed. For Squash vine borers, thoroughly cover stems and vines at the base of plants.

**PREPLANT SOIL APPLICATION:** Cutworms, Diabrotica beetles (larvae), White grubs, Wireworms.

Use 1/2 to 2 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

**PREPLANT SOIL APPLICATION:** Garden symphylans.

Use 2 to 4 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil. For heavy infestation apply at higher dosage.

### ● EGGPLANT

**FOLIAR APPLICATION:** Aphids, Climbing cutworms, Flea beetles, Lace bugs, Leafminers, Plant bugs, Squash bugs, Squash vine borers, Thrips.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Do not spray after edible parts start to form.

### ● KALE

**FOLIAR APPLICATION:** Aphids, Cabbage loopers, Climbing cutworms, Flea beetles, Imported cabbage worms, Leafminers (including Serpentine leafminers), Plant bugs, Southern cabbage worms, Thrips. (except Georgia)

Use 1 pint per acre, apply in sufficient water for thorough coverage. Do not spray after edible parts start to form.

**PREPLANT SOIL APPLICATION:** Cutworms, Diabrotica beetles (larvae), White grubs, Wireworms.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

**PREPLANT SOIL APPLICATION:** Garden symphylans.

Use 2 to 4 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil. For heavy infestation apply at higher dosage.

### ● LETTUCE

**FOLIAR APPLICATION:** Aphids, Cutworms, Flea beetles, Leafminers, Thrips, Webworms, White flies.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Do not apply to leaf lettuce after seedling stage or to head lettuce after heads begin to form.

**PREPLANT SOIL APPLICATION:** Cutworms, Diabrotica beetles (larvae), White grubs, Wireworms.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

**PREPLANT SOIL APPLICATION:** Garden symphylans.

Use 2 to 4 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil. For heavy infestation apply at higher dosage.

### ● MELONS

**FOLIAR APPLICATION:** Aphids, Climbing cutworms, Cucumber beetles, Garden symphylans, Grasshoppers, Leafminers, Lygus



bugs, Melonworms, Pickleworms, Plant bugs, Squash bugs, Squash vine borers, Thrips.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Apply when plants first break through the ground or when plants are about 1 inch in height. Repeat as needed. For Cucumber beetles and Thrips, apply the lower dosage of the range. For Melonworms and Pickleworms, apply when worms are first seen in the blossoms and repeat at 7 day intervals or as needed. Do not apply after blossoms open. Late foliar treatment may result in reduction of quality at harvest. For Squash vine borers, thoroughly cover stems and vines at the base of plants.

**PREPLANT SOIL APPLICATION:** Cutworms, Diabrotica beetles (larvae), White grubs, Wireworms.

Use 2 to 4 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

#### ● OKRA

**PREPLANT SOIL APPLICATION:** Cutworms, White grubs, Wireworms.

Use 2 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

#### ● ONIONS, DRY

**FOLIAR APPLICATION:** Thrips.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Apply when pest count average 5 to 6 per plant. Repeat in 5 to 6 days. A third application may be needed.

**SOIL APPLICATION:** Onion maggot.

Use 2 pints per acre, apply in sufficient water for thorough coverage. Apply as a preplant (see direction under OKRA) or at planting time or when plants are 2 to 3 inches tall.

#### ● PEPPERS

**FOLIAR APPLICATION:** Aphids, Armyworms, Climbing cutworms, Cucumber beetles, Flea beetles, Leafminers, Thrips.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Do not spray after edible parts start to form. For Armyworm apply at higher dosage.

**PREPLANT SOIL APPLICATION:** Cutworms, White grubs, Wireworms.

Use 2 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

#### ● PUMPKIN: See Cucumber.

- SPINACH: See Lettuce.
- SQUASH: See Cucumber.
- TOMATOS:

**FOLIAR APPLICATION:** Aphids, Climbing cutworms, Colorado potato beetles, Cucumber beetles, Flea beetles, Leafminers, Plant bugs, Thrips.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Do not spray after fruit starts to form. For Leafminers apply at the higher dosage.

**PREPLANT SOIL APPLICATION:** Cutworms, Diabrotica beetles (larvae), White grubs, Wireworms.

Use 1/2 to 1 pint per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

**PREPLANT SOIL APPLICATION:** Garden symphylans.

Use 2 to 4 pints per acre, apply in sufficient water for thorough coverage. Spray directly on soil, then incorporate as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

#### WARNING

**SOIL APPLICATION:** Do not make soil application to root crops, which might absorb a musty flavor. Do not apply in soil which will be planted to root crops (except potatoes) within 1 year. Do not use in soil which will be planted to potatoes within 2 years.

**WARNING:** Applicators must wear water resistant hat, lightweight protective suit or coverall, unlined waterproof gloves (natural rubber, neoprene, or polyethylene), and unlined lightweight boots. Mixer/loaders must wear goggles or a face shield, waterproof apron, and unlined waterproof gloves.

### 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 Oregon-California Chemicals, Inc. or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. Oregon-California Chemicals, Inc. 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 Oregon-California Chemicals, Inc. Oregon-California Chemicals, Inc. 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. The exclusive remedy against Oregon-California Chemicals, Inc. for any cause of action relating to the handling or use of this product is a claim of damage and in no event shall damages or any other recovery of any kind against Oregon-California Chemicals, Inc. exceed the price of the product which causes the alleged loss, damage, injury, or other claim. Oregon-California Chemicals, Inc. shall not be liable and any and all claims against Oregon-California Chemicals, Inc. are waived, for special, indirect, incidental, or consequential damages or expense, of any nature, including, but not limited to, loss of profits or income, whether or not based on Oregon-California Chemicals, Inc. negligence, breach of warranty, strict liability in tort or any other cause of action. Oregon-California Chemicals, Inc. 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.