Mr. George Baker Oregon-California Chemicals, Inc. 30301 Riverview Dr. Junction City, OR 97448

Dear Mr. Baker:

SUBJECT: Amendments: Add sites and posts; name change OR-CAL Lindane 400 EPA Reg. No. 52251-6 Name: OR-CAL Colloidal Lindane [new name] EPA Reg. No. 52251-32 Your submissions dated May 3, 1988

The amendments referred to above, submitted in connection with registrations under the Federal Insecticide, Fungicide, and Rodenticide Act, are acceptable, provided the following revisions are made prior to release for shipment under the amended labels:

- 1. Add the closing parenthesis after the formula name for lindame in the ingredients statement.
- 2. The Restricted Use Pesticide limitation should appear within a block (i.e. with a printed outlined perimeter) at the top of the label.
- 3. The directions for mixing already opened containers is not stated clearly and should be revised. The current submission states: "Either use entire container at one time but do not exceed recommended rates after storing partial used container or mix thoroughly before use.", would be better stated as: "Either use entire container at one time, but do not exceed recommended rates; or after storing partially used container, mix thoroughly before use.". This same statement (as revised) should appear as the first sentence under the heading "Seed Treatment.".
- 4. Update "Do not contaminate water by cleaning of equipment or disposal of wastes." to "Do not contaminate water when disposing of equipment washeaters."

- 5. In the Seed Treatment directions, revise "This product should be applied on only in a well-" to read "This product should be applied on only in a well-ventilated area". Also, delete "ventilated area" that appears at the bottom of the use precautions for seed treatment uses.
- 6. Revise the heading "Outdoor structures and Barms" to either "Livestock Buildings and Pens" or "Livestock Buildings (including barms and pens)"

The Agency's records will be adjusted to reflect the change in product name for EPA Reg. No. 52251-32 as follows:

Old Name: OR-CAL Lindane 40%

New Name: OR-CAL Colloidal Lindane

Stamped copies of the labels are enclosed for your records. Please submit five (5) copies of the each final revised amended label prior to release for shipment under the amended labels.

NOTE: The Agency's approval of additional use patterns pertains only to those uses appearing on the enclosed stamped accepted labels and does not extend to any of those uses proposed in your several previous submissions, but which do not appear on the enclosed accepted labels. It is understood that the current labels supersede the previous proposals.

Sincerely yours,

George T. LaRocca Product Manager (15) Insecticide-Rodenticide Branch Registration Division

## RESTRICTED USE PESTICIDE

The use of this product may be hamedous to your health. This product contains linduan, which has been determined to cause tumous in laboratory saimals. Risks can be reduced by closely following the use directions and procurious, and by versing the protective dothing 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.

## OR-CAL COLLOIDAL LINDANE

ACTIVE INCREDIENT:

Lindage (Gamma Isamer of Bename Hexachleide 40% MERT INGREDIENTS 60% TOTAL 100%

Contains surmatic petipleum distillate

KEEP OUT OF REACH OF CHILDREN

with COMMENTS in EPA Letter Pater

JUN - 3 1988

Under the Four Spreading Fundade and Land Spreading for the Associate Registered applied EUA Rep. No. 5 2257 - 32

### WARNING AVISO

PRECAUTION AL USARIO: Si usted no lee ingles, no use este producto hata que la etiqueta le haya sido explicada ampliamente

#### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Conterinmediately. Disk one or two glasses of water and induce vomiting by trocking back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give paything by mouth to an uncounting person.

IF INHALED: Remove a victim to besh sir. Apply artificial respiration of indicated. IF OH SIGN: Remove contaminated dothing, and wash affected areas with plenty of area and uniter. Get medical attention.

IF IN EYES: Flush with plenty of under, Call a physician if initation possists.

EPA Est No. S2251-OR-441 SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No. \$281=32

OR-CAL Chemicals, Inc. 23454 Meadewriew Rd. Junction City, OR 97442

HET CONTENTS -

GALLON

center panel

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

#### WARHING

Causes (moderate) eye invery (inclusion). De not get in eyes, on thin, or on clothing. May be fatal disunflowed or absorbed through slow. Do not breather vapor or seray mist. Use waterproof gloves, face shield or goggles, and partective clothing when handling. See also the specific uses for additional directions for partective clothing. Wash thoroughly with soap and water after handling and before easing, dinnling, or using tobacco. Remove contaminated clothing and wash before reuse. Do not use on humans or household pets. Keep children and animals away from treated areas until spray has dired. Do not apply to food or forage nor to coops to be fed to dairy animals. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be varieted by ungretected persons.

#### ENVIRONMENTAL HAZAROS

This perficide is taxic to fish, birds, and other wildlife. Do not apply directly to water or wetlands. Diff and renoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wasters.

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

#### STORAGE AND DISPOSAL

De not contammate water, food, or feed by storage or disposal

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

PESTICIDE DISPOSAL: Pesticule wastes are tasic improper disposal of excess pesticule, sony mixture, or meste is a violation of Federal Law Mithese wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Mazardous Waste representative at the nearest EPA Regional office for guidance. CONTAINER DISPOSAL: Inple anse (or equivalent). Then office for recycling or reconditioning, or puncture and dispose of in a sacretary landfill, or incineration, or, if allowed by state and local authorities, by burning Mounted, stay out of smoke

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JUN - 3 1988

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## DIRECTIONS FOR USE

the only recording to attracted label bootset instructions. It is a websiten of find only the this gradest in a masser inspections with his label. tion. De ant agely this product thereps say type of inigation system.

dan sein für Säge Where a design mage is recom mended, we the higher derage when the weather is andwise to mail linear growth (warm, bunid weather) and when the

Agaily in telliciant volume of suitor to parride good coronage with arailable agu Ether on the onive container at one timbet de art excess recommended uses after stering partial coas ambitor er mix thoroughly before we. est is either Allete samps. Actial application of Undesc is prohibited

# RE-BRIRY STATEMENT

Do not eater treated notes without partective during until 24 hours after application

Perfording disting means, at least, a hat or other saliable head coroning a long-cleared thirt and long-lagged territor or a coronal type gament (all of redy wrom fabri creating the body, including same and legs), soda, and shoes.

Agisthen to fother identaliza. Writte or onl vanings mest be given to maken who are expected to be in a treated area prin as area about to be treated with Lindous Control with this product. Onl vanings must include the following information. Wanning. This area has been treated with Lindous. On are enter without because serbain startes may require more restrictive re-entry intervals for railous copy breated with this product, commit your State Department of proplete perfective dothing. If excidentally expected, remove contaminated dothing and made the affected areas." When one manings are given, and be understood by workers. Written manings meet include the following information: "WARMING. Area treated with Lindson on (date of Scaline). Do not enter without agenquints protesies ducting well 26 hours after againstica. If and describy exposed, remove necess ings that he given in a hageage customatily endentand by worker. Onle warings must be given I there is a ressen to believe that withon w whiche whereal wesset." IMPORTANT NOTICE TO PURCHASOR AND USOR OF THIS PRODUCT 

the terms and functionise expressed bornin and on this tabel, the persoductors refuses to won This product is marchitecal, labeled, and sold in accordance with state and federal large. Adequate directions for was measury variety and cartisms, and ny nA te shand is ary my croph by with symment signal by officer of the merdicture. Unless the intended purchase symmet to be bound by Te team and finicialize expensed busin and as this tobal, the arradicture reluces to community the sale of this purion to bus and the purions must steaded with with of veneral liging or amounty demage if the erro or headler departs to any degree from the instructions on this label. The annotherwork he exercial information other rafe handling and use of this product are set forth on this label. However, the was and bandling of this product is always wher, either express or implied, and assumes no reconsibility what preventer the effectiveness or safety of this partner except to the exten

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN - 3 1988

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JUN - 3 1988

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THE BOOKLET

OR-CAL

COLLOIDAL LINDANE

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

#### PLANT USES

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#### SEED TREATMENT:

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Mix thoroughly before use or use entire container at one time. 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.

CAUTION: 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 in a well-

Use only at recommended rates.

This product will protect seeds and seedlings against damage from <u>seedcorn beetle</u>, <u>seed corn maggot</u>, <u>white grubs</u>, <u>wireworm</u>.

SEED		DOSAGE RATE
		PER 100 LBS
		OF SEED
Corn		4.0 fl. oz.
Peas		2.5 fl. oz.
Wheat, Rye, Dats		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.
Barley		2.5 fl. oz.
Sugar Beets, Beets		8.0 fl. oz.
Beans		1.0 fl. oz.
Soybeans		1.0 fl. open
Sunflowers		2.3 fl. 5z.
Cotton: Acid Delinted or Reginned		(4.0) fl. 02.
Fuzzy Not Delinted		.55. fl. oz.
Lentils	# 627 (COMPANIA	2.0 fl. oz.
Safflower	ACCEPTED with COMMENTS	1.0 fl. cz.
Radi shes	in EPA Letter Dated:	1.0 fl. oz.
Sudan Grass		TWO fl. sz.
Rye grass	JUN - 3 1988	1.0 fl. cz.

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52251-32

#### USE PRECAUTION

NOTE: This formulation does not contain dye. To comply with 21CFR Chapter 1, Section 2.25, color treat grain seed to distinguish and prevent subsequent inadvertent use as a food for man or feed animals.

WARNING: DO NOT USE TREATED SEED OR GRAIN FOR FOOD, FEED AND OIL PL POSES.

Treated seed should be labeled as follows: TREATED SEED: DO NOT USE FOR FOOD, FEED OR OIL. 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.

Only seed of high germination with good vigor should be treated with lindane. 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 lindane to the seed, again mixing thoroughly. ventilated area.

ACCEPTED with COMMENTS in EPA Let or Detect

JUN - 3 1988

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

ACCEPTED with COMMENTS in 11PA Letter Dated:

#### FRUITS

WARNING: Lindane may cause off-flavor and odor to certains - 3 1988 edible crops. Do not apply to any crop not listed on the label.

Under the few of inserticide, I am a second and the other pesticide reports families in the pesticide reports families in the IAA Reg. No. 5225/-32

FOLIAR APPLICATIONS:

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APPLES: Aphids, Flea beetles, Grasshoppers, Lygus bugs, Thrips
Foliar application: 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: Aphids, Flea beetles, Plum curculio, Thrips.
Foliar application: 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.

GFAPES: Grape phylloxera (leaf form only). Foliar application: Use 1 quart per acre, apply in sufficient water for thorough coverage. Do not use later than one month after bloom.

PEACH: Aphids, Leafroliers, Plum curculio, Thrips, Foliar application: Use 1/2 pint in 100 gallons of water, apply in sufficient water for thorough coverage. Do not apply more than 1 and 1/4 pints per acre. Do not apply later than 7 days after shuck split. Do not use within 60 days of harvest.

PEARS: Aphids, Flea beetles, Plum curculio, Thrips,

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

<u>Pear psylla.</u> Foliar application: Use 1 and 1/4 pints per acre, apply in sufficient water for thorough coverage. Do not apply more than 1 and 1/4 pints per acre. Do not use within 60 days of harvest.

PLUMS: Aphids, Leafrollers, Plum curculio, Thrips. Foliar application: Use 1/2 pint in 100 gallons of water, ap, in sufficient water for thorough coverage. Do not use more than 3 pints per acre. Do not use

within 60 days of harvest.

PRUNES: Aphids. Foliar application: Use 1/2 pint in 100 gallons of water. Apply in sufficient water for thorough coverage. Do not use more than 1 and 1/4\ccorrect pints per acre. Do not use within 60 days of \( \frac{\text{with Comments}}{\text{in EPA Extrem Detach}} \)

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BARK APPLICATIONS:

JUN - 3 1988

AFFLES, CHERRIES, PEACHES, PEAPS, PLUMS:

Flatheaded appletree borer. Peachtree borer. a, we can be be welcode Roundheaded appletree borer. Shothole borer. Banks a mark Mag. No. application: Use 1 and 1/2 pints in 100 gallons of 5225/-32—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 23 day intervals. Apply to trunk, crotch to ground. Soak bark to the point of runoff. Do not apply within 60 days of harvest.

For <u>Roundheaded appletree borer</u>, 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 <u>Flatheaded appletree borer</u>, 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.

APPICOT: Peachtree borer. Bark application: Use 1 and 1/4 pints in 100 gallon 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 AFFLICATIONS:

STRAWBERRIES: DO NOT APPLY AFTER FRUIT STARTS TO FGRM.

Preplant soil application. <u>Cutworms</u>, <u>Diabrotica</u>

<u>beetles</u> (<u>larvae</u>), <u>Garden symphhylan</u>, <u>White grubs</u>,

<u>Wireworms</u>. Use 2 to 3 quarts per acre 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.

Spittlebugs, Weevils. Foliar application: Use 1/4 cup per acre, apply in sufficient water for thorough coverage. Apply in the spring when first leaves appear. Repeat at 5 to 10 day intervals.

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Soil application: Apply in fall after last harvest but before October 1. Use 1 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.

CAUTION: 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.

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish, birds, and other wildlife. Do not apply directly to water or wetlands. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

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.

ACCEPTED
with COMMUNES
in FPA Letter Patch

JUN - 3 1988

Under the Peace is no encide. Fungicide, and had the head as amended, for the posteride registered under hPA Reg. No. 52251-32



1 ... . ( ) - -1.4 ALL APPLICABLE DIRECTIONS. RESTRICTIONS. AND PRECAUTIONS ON THE LABEL ARE TO BE FOLLOWED. The recommendations below are based on 400 gallons of spray per acre in dilute application except as noted. ACCLITED with COMMENTS **VEGETABLES** in EP's Local Pated: **ASPARAGUS** Asparagus beetle, Thrips. JUN - 2 1988 Foliar application: as appeted to the periode and post harvest cutting. registered under LPA Reg. No. 52251-32 BEOCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER Aphids, Cabbage looper, Climbing cutworms, Flea beetles, Imported cabbage worm, Leafminers (including Serpentine leafminer), Plant bugs, Southern cabbage worm, Thrips. Foliar application: Use 1/4 pint in 100 gallons of water. Do not apply after edible parts start to form. Cabbage maggot Soil application: Use 1/2 pint in 100 gallons of water. Apply to soil around base of plants. Cutworms, Diabrotica beetles (larvae), White grubs, Wireworms. Preplant soil application: Use 1/4 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil. CELERY Aphids, caterpillars (including Climbing cutworm), Celery leatier (larvae), Celery looper (larvae), Cucumber beetle, False celery leaftier, Flea beetles, Leafminers, Parsleyworm, Tarnished plant bug, Thrips. Foliar application: Use 1/8 to 1/4 pint in 100 gallons of water. Do not apply when plants are half grown or begin to bunch. Cutworms, Diabrotica beetles (larvae), White grubs, <u>Wireworms.</u> Preplant soil application: Use 1/8 to 1/2 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil. For garden symphylan, apply the higher dosage for heavy infestation. COLLARDS Aphids, Cabbage looper, Climbing cutworms, Flea beetles, Imported cabbage worm, Leafminers (including Serpentine

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#### leafminer). Plant bugs. Southern cabbage worm. Thrips.

Foliar application: Use 1/4 pint in 100 gallons of water. Do not apply after edible parts start to form.

Cutworms, White grubs, Wireworms. Preplant soil application: Use 1/2 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough disruption in upper 4 to 6 inches of soil, ACCEPTED with COMMENTS in TPA Description.

#### CUCUMBERS:

Aphids, Climbing cutworm, Cucumber beetles.

Grasshoppers, Leafminers, Lygus bugs, Melonworms, Clar of the delder Pickleworm, Plant bugs, Squash bug, Squash vine borer, and Charles to the Thrips.

Last an open of the part delegated under EPA Reg. No.

foliar application: Use 1/8 to 1/4 pint in 100 gallons 52251-32 of water. Apply when plants first break through the ground or when plants are about 1 inch in height. Repeat at needed. For <u>cucumber beetles</u> and <u>Thrips</u>, apply the lower dosage of the range. For <u>Melonworm</u> and <u>Fickleworm</u>, apply when worms are first seen in the blossoms and repeat at 7 day intervals or as needed. For <u>squash vine borer</u>, thoroughly cover stems and vines at the base of plants.

<u>Cutworms</u>, <u>Diabrotica beetles</u> (larvae), <u>White grubs</u>, <u>Wireworms</u>.

Preplant soil application: Use 1/8 to 1/2 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

#### <u>Garden symphylan</u>

Preplant soil application: Use 1/2 to 1 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil. for heavy infestation apply at higher dosage.

#### EGGELANT

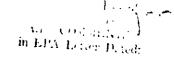
Aphids, Climbing cutworms, Flea beetles, Lace bugs, Leafminers, Flant bugs, Squash bug, Squash vine borer, Thrips.

Foliar application: Use 1/8 to 1/4 pint in 100 gallens of water. Do not spray after edible parts start to form.

#### MALE

Aphids, Cabbage looper, Climbing cutworms, Flea beetles, Imported cabbage worm, Leafminers (including Serpentine leafminer), Plant bugs, Southern cabbage worm, Thrips.

Foliar application: Use 1/4 pint in 100 gallons of



water. Do not spray after edible parts start to form.JUN - 3 1988

Cutworms, Diabrotica beetles (larvae), White grubshome de la Rodentande les Wireworms,

Wireworms,

Under the bestell in estable, de grubshome de la Rodentande les the periode registered unuer 1.PA Reg. No.

Freplant soil application: Use 1/8 to 1/4 pint in 100 5025/-32 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

#### Garden symphylan

Preplant soil application: Use 1/2 to 1 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil. for heavy infestation apply at higher dosage.

#### LETTUCE

Annids, Cutworms, Flea beetles, Leafminers, Thrips, Webworms, White flys.

Foliar application: Use 1/8 to 1/4 pint in 100 gallons of water. Do not apply to leaf lettuce after seedling stage or to head lettuce after heads begin to form.

<u>Cutworms</u>, <u>Diabrotica beetles</u> (larvae), <u>White grubs</u>, Wireworms.

Freplant soil application: Use 1/8 to 1/4 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

#### Garden symphylan

Freplant soil application: Use 1/2 to 1 pint in 100 gallons of water. Spray directly on so.', then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil. for heavy infestation apply at higher dosage.

#### MULONS

Aphids, Climbing cutworm, Cucumber beetles, Garden symphylan, Grasshoppers, Leafminers, Lygus bugs, Melonworms, Fickleworm, Plant bugs, Squash bug, Squash vine borer, Thrips.

Foliar application: Use 1/8 to 1/, pint in 100 gallons of water. Apply when plants first break through the ground or when plants are about 1 inch in height. Repeat as needed. For <u>cucumber beetles</u> and <u>Thrips</u>, apply the lower dosage of the range. For <u>Melonworm</u> and <u>Pickleworm</u>, 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 borer, thoroughly cover stems and vines atjun. 3 1988 the base of plants.

Under the 1 so Inserticide, Cutworms. Diabrotica beetles (larvae), White grubs Purposed and the pesteide registered under 1.PA Rep. No. 572 257-37

Preplant soil application: Use 1/2 to 1 pint in 100-gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

ÜLF'A

<u>Cutworms</u>. White <u>grubs</u>. Wireworms. Freplant soil application: Use 1/2 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

ONIONS, DEY

#### Thrips

Foliar application: Use 1/8 to 1/4 pint in 100 gallons of water. Apply when pest count average 5 to 6 per plant. Pepeat in 5 to 6 days. A third application may be needed.

#### Onion magget

Soil application: Use 1/2 pint in 100 gallons of water. apply as a preplant (see direction under OMPA ) or at planting time or when plants are 2 to 3 inches tall.

#### PERPERS

Aphids, Armyworm, Climbing cutworms, Cucumber beetle, Flea beetles, Leafminers, Thrips.

Foliar application: Use 1/8 to 1/4 pint in 100 gallons of water. Do not spray after edible parts start to form. For armyworm apply at higher dosage.

<u>Cutworms</u>, <u>White grubs</u>, <u>Wireworms</u>. Preplant soil application: Use 1/2 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

PUMPKIN: See Cucumber.

SPINACH: See Letture.

SOUASH: See Eucumber.

#### TOMATOES:

Aphids, Climbing cutworms, Colorado potato beetle, Cucumper beetles, Flea beetles, Leafminers, Plant bugs,

#### Thrips.

Foliar application: Use 1/8 to 1/4 pint in 100 gallons of water. Do not spray after fruit start to form. For Leafminers apply at the higher dosage.

<u>Cutworms, Diabrotica beetles (larvae), White grubs, </u> Wireworms.

Preplant soil application: Use 1/8 to 1/4 pint in 100 gallons of water. Spray directly on soil, then disc as soon as practicable to give thorough distribution in upper 4 to 6 inches of soil.

#### <u>Garden</u> symphylan.

Preplant soil application: Use 1/2 to 1 pint in 100 gallons of water. Spray directly on soil, then disc 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.

CAUTION: 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 aloves.

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish, birds, and other wildlife. Do not apply directly to water or wetlands. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

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.

> ACCEPTED with COMMENTS in EPA Letter Dated:

JUN - 3 1988

Under the France Insertedde. Fungic de la la Romanda e Vet. as amended for the periode registered under LPA Rep. No.

52251-32

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ALL APPLICABLE DIRECTIONS, RESTRICTIONS, AND PRECAUTIONS ON - 3 1988
THE LABEL ARE TO BE FOLLOWED.

Under the

#### **ORNAMENTALS**

OPNAMENTAL LAWNS:

Ants, Armyworms, Billbugs(larvae), Criclets, Cutworms, Fiery skipper (larvae), Fleas, Leafhoppers, Otiorhyncus weevils (larvae), Spittlebugs, Sod webworms, Spiders, Symphylans, Ticks, Thrips, White Grubs, Wireworms.

Foliar application:

Use 1/4 pint per 5000 sq. ft. in at least 1D 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 D days prior to treatment. On dichondra and matted grass lawns, sprintle lightly immediately after treatment to improve effectiveness. Heavy watering or irrigation should be withheld for D to D days following treatment. Pepeat at 4 to 6 weel intervals if needed.

CAUTION: Teep children and pets off treated areas until material has been washed into the soil and the grass is completely dried.

Applicators must wear the following protective clothing during the application process: long-sleeved shirt, long pants, waterproof gloves, full foot covering and a head covering.

TUPF GROWN FOR GRASS SEED:
Grass seed grown for seed.

Billbugs Clarvael, White fly larvae, March fly larvae.

Foliar application: Use 1 and 1/2 to 2 pints per acre in sufficient water for thorough coverage.

Warning: Do not use seed for Food, Feed and Oil purposes.

#### OFNAMENTAL FLANTS:

Aborvitae, Ash, Aster, Azalea, Beech, Bovelder, Boveld, Camellia, Carnation, Chestnut, Christmas Tree Plantations, Chrysanthemum, Coleus, Cottonwood, Dahlia, Daisy, Delphinium, Dogwood, Elm, Euchymous, Fir, Flowering Cherry, Flowering Ornamental Fruit Trees, Forsythia, Gardenia, Geranium, Gladiolus, Hawthorn, Heather, Hemicol, Hibiscus, Holly, Horsechestnut, Hydrangea, Iris, Japanese Black Pine, Juniper, Larkspud, Lilac, Lilies, Linden, Locust, Maple, Mountainash, Narcissus, Nasturtium, Oak, Ornamental and/or Shade trees, Ornamental Deviduous Trees, Fansy, Peony, Petunia, Pine, Coinsettias, Frimrose, Eyracantha, Phododendron, Pose, Syramore, Snapdragon, Spirea, Sweet Pea, Tulips, Willow, Yew, Zinnia.

PESTS:

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Foliar application:

Ants, Aphids, Armyworms, Black vine weevil, Blister, 100 Me. beetles, Boxwood leafminer, Boxwood psyllid, Cabbage 5 22 57-32 looper, Gucumber beetles, Diabrotica beetles, Fieabeetle larvae, Fuller rose beetle, Grasshoppers, Japanese beetle, Lace bugs, Leaf hoppers, Leafminers, Leaf rollers, Flant bugs, Psylla, Pose chafer, Rose leaf beetle, 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. Pepeat applications as necessary or as indicated, depending upon size, density of plants and infostation.

foliar application:

Iris borer. Twig girdler

Use 1 and 1/4 pints per acre in 100 gallons of water, apply in sufficient water for thorough coverage. Repeat applications as necessary or as indicated, depending upon size, density of plants and infestation.

Barl Application:

Fine bar! adelqid, Douqlas fir beetles, Mountain pine beetles, Western pine beetles, Twolined chestnut borer, Carpenterworm, Elm borer, Pine root collar weevil, White pine weevil, Sugar maple borer, Bar! beetles, Blac! turpentine beetle.

Use 3 pints in 100 galloms of water. Spray trunk and branches of growing trees. Apply when immature adelgids are present. On Aspen apply in spring when bud begin to break. 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

Lilac borer, Bronze birch borer, Locust borer, Woodboring insects, Foundheaded borer, Zimmerman pinemoth, Honeylocust borer, Fed turpentine beetle, Fhododendron borer, Foundheaded Appletree borer,

Use 1 to 1 and 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

Stemborer, Flatheaded wood borer, Foundheaded wood borer, Flatheaded appletree borer

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 <u>White pine weevil</u> use as a delayed dormant application. Apply thoroughly to entire tree in late April when buds swell.

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Bulb Application:

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with COMMIN'S in Elik Letter Datem

Aphids, Bulb flies, European corn borer, Iris borer, Thrips, Wireworms

JUN - 3 1988

Use 1/2 pint in 100 gallons of water. Apply astalspray, when pest first appear and repeat as needed. Funger, or decomposition

as unempty for the procede registered under EPA it is less.

Smal treatment.

Billbug larvae, Webworm, Wireworm, Cutworm

Use 1 gallon per acre. Apply in sufficient water for thorough coverage. Spray directly on soil, then discussion as practicable to give thorough distribution in upper 4 to 6 inches of soil. CAUTION: 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. Applicators must wear the following protective clothing during the application process: long-sleeved shirt, long pants, waterproof gloves, full foot covering, and a head covering.

#### OPNAMENTAL EVERGREENS:

Austrian Pine, Azalea, Douglas Fir, Monterey Pine, Ponderosa, Scotch Pine, Southern yellow Pine, Spruce (including Norway Spruce and White Spruce), White Fir, White Pine, Rhododendron.

#### PESTS:

Foliar application:

Aphids (including balsam twig aphid and white pine aphid) Birch leafminer, Elm leafminer, European Hornet, Lace Bugs, Fsyllids, Spittlebugs, Strawberry root weevils (adults), Thrips.

Use 1 1/2 pints in 100 gallons of water. Apply in spring when buds begin to break. Pepeat in 10 to 14 days. For aphids, apply when present in summer and fall.

Bark application:

Austrian Pine. <u>Pine bark adelgid</u>. Use 1/4 pint in 100 gallons of water. Apply when immature adelgids are present.

Soil treatment: <u>Billbuq</u> larvae, <u>Webworm, Wireworm,</u> <u>Cutworm</u>

Use 1 gallon per acre in 100 gallons of water 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.

CAUTION: 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.

CAUTION: 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.

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish, birds, and other wildlife. Do not apply directly to water or wetlands. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

This posticide is highly took 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.

ACCEPTED with COMMINTS in FPA Letter Database

JUN - 3 1988

Under the first last ode, Fungier e and historia de 193 as amended, for the posterile registered under EPA Reg. No. 5 225/-32...



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

#### OUTDOOR STRUCTURES AND BARNS

Ants, Red bug complex, <u>Footroaches</u>, <u>Fleas</u>, <u>Flies</u> timelading <u>house fly</u> and <u>stable fly</u>), <u>Gnats</u>, <u>Midges</u>, <u>Mosquitoes</u>, <u>Silverfishes</u>, <u>Spiders</u>, <u>Ticks</u>

Spray application: use 1 quart in 100 gallons of water. Residual premise treatment. For crawling insects thoroughly spray all baseboards, cracks, flours, and other places where pest hide, also spray any post present. For flying insect, 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, adjoient 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.

CAUTION: 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.

ENVIRONMENTAL HAZARD: This pesticide is toxic to fish, birds, and other wildlife. Do not apply directly to water or wetlands. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

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ACCEPTED with COMMENTS in EPA Lever Dated:

JUN - 3 1988

Under the Fester's Investigate, Funga de una Pratectoria Act as amended for the posterio registered under EPA Reg. No. 52251-32



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#### BEEF CATTLE

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<u>Jicks, hornflies, screwworms, spine ear ticks.</u> Use 7 1/2 numbes 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, in more than 1000 fg (2200 lbs) of used dip solution in combination with other hazardous waste, the material must be treated as hazardous waste subject to subpart a of PCPA. 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 FCPA. Do not apply to dairy cattle. Do not dip these animals within 60 days of slaughter, do not apply to these 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 late before using. If any separation of emulsion occurs, do not use the dip.

Don 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 of in poultry houses. Do not use in dairy

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

ENVIPONMENTAL HAZARD: This pesticide is toxic to fish, birds, and other wildlife. Do not apply directly to water or wetlands. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

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ACCEPTED with COMMENTS in EPA Letter Dated:

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JUN - 3 1988

Under the 4 deept to extende, Fungiode, and Rodenminde Act as amended, for the pessioide registered under EPA Reg. No. 5226/-37