Deferrals To:

Ecological Effects Branch

Residue Chemistry Branch

Toxicology Branch

034401

Shaughnessy No.

2 3 JUN 1983

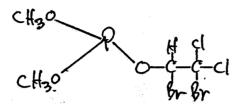
Date out of EAB: W. Miller To: Product Manager #16 Registration Division (TS-767) Richard V. Moraski, Ph.D., Acting Chief Environmental Chemistry Review Section No. 1 Exposure Assessment Branch Hazard Evaluation Division (TS-769c) Attached please find the EAB review of ... Reg./File No.: 5481-165 Chemical: Naled Type Product: Insecticide Product Name:___ Company Name: AMVAC Chemical Submission Purpose: label amendment ACTION CODE: 310 ZBB Code: 3(c)(7) EFB # 3338 Date In: 4/27/83 Date Completed: 6/23/83 TAIS (level II) Days 2.5 63

1.0 INTRODUCTION

Chemical Name and Type of Pesticide: Naled, 1,2-dibromo-2,2-dichloroethyl dimethylphosphate

Trade Name: NALED 8 Insecticide

Chemical Structure:



AMVAC Chemical Corporation is applying for amended registration to make a number of changes on their NALED 8 INSECTICIDE label. The changes are listed in the attached letter. NALED 8 is very similar (amount of ai the same) to Ortho's DIBROM 8 Emulsive.

2.0 DIRECTIONS FOR USE

See attached labels.

3.0 DISCUSSION OF DATA

No new data submitted.

4.0 CONCLUSION

- 4.1 Of the eleven changes in the label, three involve the addition of a new crop: almonds, mushrooms, and safflower. These additions are acceptable, since they are currently on the label of Ortho's DIBROM 8 Emulsive at the proposed rate.
- 4.2 Other label changes deal with format, deletion of alfalfa, addition of aerial and concentrate spraying to certain crops, and addition of lemon storage room application. These changes either do not alter, or only slightly alter the application rate.

5.0 RECOMMENDATION

EAB concurs with the proposed changes in the NALED 8 Insecticide label for the reasons cited in sections 4.1 and 4.2.

Herbert L. Manning, Ph.D. Review Section No. 1 EAB/HED

AMVAC CHEMICAL CORPORATION



4100 EAST WASHINGTON BLVD. LOS ANGELES, CA. 90023 213/264-3910

March 25, 1983

William H. Miller
Product Manager (16)
Insecticide-Rodenticide Branch
Registration Division (TS-0767)
U.S. Environmental Protection Agency
Washington, D.C. 20460

Subject: NALED 8 INSECTICIDE
EPA Reg. No. 5481-165
Application for Amended Registration

Dear Mr. Miller:

Amvac Chemical Corporation is making application for amended registration of our product, NALED 8 INSECTICIDE, EPA Reg. No. 5481-165. Enclosed for your files are the following documents:

- 1) APPLICATION FOR PESTICIDE AMENDMENT
- 2) Five (5) copies of draft labeling
- 3) OFFER TO PAY, CITE-ALL METHOD OF COMPENSATION
- 4) CERTIFICATION STATEMENT
- 5) Letter in compliance with PR NOTICE 83-1

The purpose of this label amendment is as follows:

- 1) Change label format and precautionary statements to comply with the EPA label improvement program.
- 2) Delete Alfalfa and Alfalfa Seed from the label
- 3) Add Almonds to the label
- 4) Add aerial application to beans
- 5) Add concentrate spraying to certain crops
- 6) Increase rate on cotton and define water rate
- 7) Add airblast application and aerial application and thripson grapes (California only)
- 8) Add Mushrooms to label
- Add concentrate and aerial application to Oranges, Lemons, and Grapefuit (California only)
- 10) Add Lemon storage room application to label
- 11) Add Safflower to label

Naled	
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Page is not included in this copy. Pages through are not included in this copy.
The material not included contains the following type of information:
Identity of product inert ingredients.
Identity of product inert impurities.
Description of the product manufacturing process.
Description of product quality control procedures.
Identity of the source of product ingredients.
Sales or other commercial/financial information.
X A draft product label.
The product confidential statement of formula.
Information about a pending registration action
FIFRA registration data.
The document is a duplicate of page(s)
The document is not responsive to the request.
The information not included is generally considered confidentia by product registrants. If you have any questions, please contacthe individual who prepared the response to your request.

ACCEPTED

FER 9 1979

Under the Federal Innocial in Fungicide, and Rodenticide ich as amended, for the positions registered under \$\frac{\pi}{248} - 165

NALED 8 INSECTICIDE

27.5	
58.0%	Active Ingredients:

Contains 8 pounds technical naled per gallon equivalent to 7.2 pounds naled.

READ THE LABEL

DANGER: Keep but of reach of children.

See back panel for additional cautions.

NET CONTENTS: ONE GALLON

13

NALED & INSECTICIDE

IN ÁCCORDANCE WITH CAUTIONS AND DIRECTIONS, ÁND WITH ÁPPLICABLE STATE AND FEDERAL REGULATIONS. INER DO NOT PUT CONCENTRATE OH DILUTE INTO FOOD OR DRINK CONTAINERS.

ICT IN THE FOLLOWING GALLONS WATER PER ACRE UNLESS OTHERWISE NOTED: Field Crops—30 to 750 gass Cotton—3 to 70 gals. Decidious Fruit Crops—60 to 800 gass. Citrus—400 to 3,000 gass (On Young

tet and mite adults and Isrvae present at the time of application. An necessary. Do not apply within 4 days of harvest unless otherwise noted. Do not use with highly alkaline materials such as

ECTIONS. Add to spray tank when '4 to '6 full with agilator running and mainlish signation until spraying is completed.
Fireschopper—'8 pt per acre when crop is not more than 12" high. Alphids, Loopers, Leathoppers, Lygus Bugs, Alfalfa Webworms, Armyworms—1 pt per acre
freschopper—'8 pt per acre when crop is not more than 12" high. Alphids, Loopers, Leathoppers, Lygus Bugs, Alfalfa Webworms, Armyworms—1 pt per acre
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–I pl. per acre in water to cover 100 gais, per acre is prefereble, Large Loopers, S VER, BRUSSELS SPROUTS, KALE, COLLARDS: Imported Gabbagaworm, C of Minors—Use ground application only with fine mist spray—t pt. in 50 to 75 gals, water per acre on m, Diamond Back Caterpillers, Aphids - 1 pt per acre

use 1% bits in 100 to 150 gals water per serie. air or ground Last Perferator, Flashoppers, Armywerns, Boltwarns, Loopers and For Suppression of Mitss.—1 pt. per sere by air or with persist FOR HEAVY POPULATION OF LISTED INSECTS—Use % pt. per sere by air or ground in control programs with

Countber Bartles, Aphide, Spider Mittel, Looperi, Thribs, Armyworms—1 of per acre in water to cover. Pickleworms, Leaf Miners—1% At—Use minimum of 10 gals, water per acre May be used up to harvest. As witten Bartles, Flea Bartles, Leaf Miners, Whitefly—1 bit per acre May be used up to 1 day before harvest. Og gals water. Use up to 10 days of harvest of harvest

on Earworm, riop Looper, Autworm - I pt. per eur Châispillaid, Liâl Minén - Use ground application only with fine mist stray - I pt. in 50 to CREENS: Aphids, Loopers, Armyworms, Sant Marsh Châispillaid, Leaf Minén - Use ground application only with fine mist stray - I pt. in 100 to 150 gais water per acre. May be used 1 day before harvest leaf Minen - I to 2 pts. least Minen - I

s, LEMONS, GRAPEFRUIT, TANGERINES, Aphids, Soft Brown Scale Crawlers, Mital, Citrus Cutworms, Last Roller (Tortrix)—1 pt. to 100 gals water Thips 4 pt. per 100 gals water. Use up to 7 days of havest, (Calif. and Aris.—Do not apply within 1 day of havest I Do not enter citrus groves for 24 hours following

CHES (Western States Only): Lygus, Suppression of Mites, Peach Twig Borer, Oriental Fruit Moth (Californs Only)—% pt 10 100 gals water. To avoid fruit spotting, do use seriful Moth (Californs Only)—% pt 10 100 gals water. To avoid fruit spotting, do use seriful States of California (Inc.) on the california of the cal : Gramhoppers-''s to 'k pt. per acte. Apply at first sign of insects. Do not make more than 3 applications. May be used 2 days before harvest.
148ERRIES. Leaf Roller, Spider Mites, Aphido, Omniverous Leaf Teer, Spirtlebugs (Northwest)-1 pt. per acte. Do not apply within 5 days of harvest.
15 A BEETS. Spider Mites, Leafhoppers-1 pt. per acte by air or ground. By Air-Use in 1 to 5 gall water per acte. Do not apply within 5 days of harvest.
16 CCO: Hormworm-1 pt. to 100 gals, water, using up to 200 gals, district prey per acte. Flea Beatles-1 pt. per acte in water to cover. Apply at first signs of insects.

as a recessive Fruit Fied (Drosophila)—i pt. in no less than 40 gals, water per acrè with ground sprayer. 7 to 10 gals by air Make first application 5 to 7 days before ATOES (Field): Fruit Fied (Drosophila)—i pt. in no less than 40 gals, water per acrè with ground sprayer. 7 to 10 gals by air Make first application 5 to 7 day intervals until the day before havest (Field and Greenhouse): Tomato Fruit Worm, Hormworms, Leaf Miners, Field Besties, Mites—1 problems and continue at 5 to 7 day intervals until the day before havest (Field and Greenhouse): Tomato Fruit Worm, Hormworms, Leaf Miners, Field Besties, Mites—1

g and continue at 5 to 7 day intervals until the day before harvest (Fiald and Greenhouse): Tomato Fruit Worm, Hormworms, Leaf Ainmers, Fiea Besties, Miles - I gais, water, Spray plants thoroughly. Feer Fiald –Use up to 200 gais, difuted spray per acte. Do not apply when temperature is over 90°F. May be used 1 day before Jumper, Pine, Spruce): Suppression of Two-Spot and Red Spider Miles, Aphids, dult Sieria Fir and Western Hernlock Bark Borers. te, Locust, Magnote, Maple, Oak, Sycamore, Willow): (California only), Spring and Fall Cankerworms, Fall

EPA REG. NO. 5481-165-AA

AIRCRAFT: Esstecommendations for use imitations weren't seest-Appry UIS to 4 IT 02. Det sere driuted with waist.
Ny 2 to 8 qts. of driuted spray per acre MIST OR COLD FOG: Use
pared Nation on the

CORRALS, ADJACENT PASTURES, HOLDING PENS (Dairy and Bears Dilute 1 to 2% pit in 10 gail, water Apply 1 gail divised to average Dilute 1 to 2% pit in 10 gail, water Apply 1 gail divised to average CLOVER MITES, ROACHES, EARWIGS AND LEAFHOPPERS Output llower, his by and itees for general pest creamup.

IRANSHOPPERS: Rangeland, Faild Amas (crops lifted on label) and
GRASSHOPPERS: Rangeland, Faild Amas (crops lifted on of ground
are or ground Young Grasshoppers—'A pt. per acre by an orgenizer An
apply when hoppers hatch it completed Repeal at orcensive An
Apply when hoppers hatch it completed Repeal at orcensive An
apply when hoppers hatch it sees thould not be cut for hay to be only DANGER: Concentrate may cause skin damage, or goggles when handling concentrate. Harmful clothing and flush skin or eyes with plenty of nts on pastures or field areas should not Do not go. LAME. Kee

under 1 above) resulting from hands

AMVAC CHEMICAL

DIBROM " Is a regist

S37-1875

resson of Two-Spot and Red orm, Dak Webworm and Tuss

EPA EST. 5481-CA-1

OTHERWISE NOTED: Crops-60 to 800 gals, Citrus-400 to 3,000 gals, 10n Young H APPLICABLE STATE AND FEDERAL REGULATIONS DRINK CONTAINERS.

wise noted. Do not use with highly affialine materials such as

Mites, Lygus, Leef Miner, GREEN BEANS: Aphids, Spider a, Alfelfa Webworms, Armyworms—1 pt. per acre acre. Combine with recommended chemicals for

oopen, and For Suppression of Mitm.—I pt, per acre by air or Use is pt per acre by air or ground in control programs with h tine mist spray -1 pt in 50 to 75 gals water per acre or m. Diamond-Back Ceterpillars, Aphids - 1 pt. per acre

of per acre in water to cover Pickleworms, Leaf Miners-1% May be used up to 1 day before harvest.

rpending on size of vines I Use only % pt. per 100 gals wate

is ground application only with fine mist spray—1 pt. in 50 to in May be used 1 day before harvest ms, Leathoppers, Spider Mites, Leat Miners-1 to 2 pti

urs following treatment
flay he used 2 days before harvest,
acre. May be used 1 day before harvest,
acre. Do not apply within 5 days of har ma Only). % pt. to 100 gats, water. To avoid fruit spotting, do of harvest I Do not enter citrus groves for 24 hours following

7.10.10 gats thy air Make first application 5 to 7 days before s Fruit Worm, Hornworms, Leaf Miners, Fjea Beetles, Mitea-1 sply when temperature is over 90°F. May be used 1 day before pt per acre in water to cover. Apply at first signs of insects

d Quince, Locust, Megnolia, Maple, Oak, Sycemore, Willow): vorms (California only), Spring and Fell Cankerworms, Fall Suppression of Two-Spot and Red Spider Mites, Aphids ern Hemlock Bark Borers.

EPA REG. NO. 5481-165-AA

Pink Champagne Chrysanthemums,

FRUIT FLIES (Drieophile sp.) in and exerted Food Processing Plants, leading Docks, Cull Plas and Refuse Ares, Clder Mills-Use 2 oz. in 2% pats, water (Sp. to 100 Docks) as a coase spray to wells, frost, doorways, mondow, refuse and cull piets where meets congregate. Apply every 5 to 2 days as necessary Doc not apply to cull fruit or refuse piets to be feet to investeds. Acquit consumnation of feets, foodstuffs and food processing machinery. Do not apply when plants are in operation or when foods are present or

CORRALS, ADJACENT PASTURES, HOLDING PENS (Derry and Beef Centle, Hops, Sheep, Horsel): Houseflier, Mosquitose-Airplane Application—Use 1 6 to 4 ft oz. per acre. Divire 1 to 2% pis in 10 gets water. Apply 1 get divited spray per acre. Apply over area with animal present.

CLOVER MITES, ROACHES, EARWIGS AND LEAFHOPPERS Outside Dwellings and in Lawres: Use 1 ft. oz. in 3 gets, water. Apply to turf and to soil surfaces around. llowr, shrub and itest for general pest cleanup

(Inowr, shrub, and itest for general pest cleanup

(Inowr, shrub, and itest for general pest cleanup

(Inowr), shrub, and shrub

DANGER; Concentrate may cause skin damage. Do not get on skin, eyes or clothing. Causes eye damage. Use waterproof gloves and face shield or goggles when handling concentrate. Harmful if swallowed. Avoid breathing spray mist, In case of contact, immediately remove contaminate clothing and flush skin or eyes with plenty of water; for eyes, get medical attention. NOTE TO PHYSICIANS: Attopine is antidotal. 2 PAM is clothing and distance of the property of the p plants on pestures or field areas should not be cut for hey to be sold or shipped interstate within 4 days of application

This product is tokic to fish and wildfile. Birds feeding on treated area may be killed. Keep out of lakes, streams or ponds. Shump and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply when weather conditions favor drift of spray from areas treated. Ainse equipment and containers and dispose of wastes by burying in noncrop lands away from water supplies.

Service: Container should be disposed of by breaking and burying with wastes. WHEN CONTAINER IS EMPTY, IMMEDIATELY WASH THOROUGHLY AND DESTROY. NEVER RE-USE. This product is highly toxic to bees exposed Service. Container should be disposed of by b to direct ses on crops. Protective information may be obtained from your Cooperative. Agricultural Extension

CONDITIONS OF SALE: 1 Amvac Chemical Corpor

TIONS OF SALE: 1 Ames Chemical Corporation warrants that this material conforms to the chemical description on the label and is reasonably hit for use as directed Ames neither makes, nor authorizes any agent or representative to make, any other other warranty of FITNESS or of MERCHANTABILITY, guarantee or nation, express or implied, concerning this material is contained to the property of the pr

AMVAC CHEMICAL CORPORATION, Los Angeles, Calif. 90023

EPA EST., 5481-CA-1 DIBROM . is à régistéréd trademark of Chevron Chemical Company.

ACCEPTED

JUL 27 1982

Under the Federal Insection of Functional and Rodenticide fact, as amended for the pesticide registered under 27-48/



ORTHO

DIBROM® 8 Emulsive

Naled Insecticide

Active Ingredients *Naled	,	By Wt.
Light Aromatic Petroleum Distillate		20%
*1,2-dibromo-2,2-dichloroethyl dimethyl p		

Contains 8 pounds technical naled per gallon equivalent to 7.2 pounds naled.

LEEP OUT OF REACH OF CHILDREN DANGER

FOR AGRICULTURAL USE ONLY OR FOR SALE TO, USE, AND STORAGE BY SERVICE PERSONS ONLY. DO NOT STORE IN AREAS ACCESSIBLE TO CHILDREN.

DO NOT TAKE INTERNALLY. DO NOT GET IN EYES. DO NOT GET ON SKIN.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

NET CONTENTS 1 GALLON

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS DANGER

Concentrate causes eye and skin damage. Do not get in eyes, on skin or clothing. May be fatal if swallowed or absorbed through skin. Do not breathe si mist. Use waterproof gloves and face shield or goggles when handling concentr Keep children and animals off treated areas.

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately remove contaminated clothing and flush skir eyes with-plenty of water. For eyes, get medical attention.

Note to Physicians: Emergency Information - call (415) 233-3737. Naled i

Note to Physicians: Emergency Information - call (415) 233-3737. Naled i cholinesterase inhibitor. Atropine is antidotal. 2-PAM is also antidotal and may used in conjunction with atropine. Mucosal damage may occur, and if gas lavage is indicated, it should be performed cautiously.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, shrimp, crab, birds and other wildlife. Keep out lakes, streams, ponds, tidal marshes and estuaries. Shrimp and crab may killed at application rates recommended on this label. Do not apply where the are important resources. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

This product is highly toxic to bees exposed to direct treatment or residues crops. Protective information may be obtained from your Cooperative Agriculta Extension Service.

PHYSICAL OR CHEMICAL HAZARDS

COMBUSTIBLE. KEEP OUT OF REACH OF CHILDREN. DO NOT USE OR STORE n heat; open flame; sparks or hot surfaces. USE ONLY IN WELL VENTILATED AR Keep container closed. Clean up spills immediately. Liquid evaporates and for vapor (fumes) which can catch fire and burn with explosive violence. Invisivapor spreads easily and can be set on fire by many sources such as pilot light welding equipment and electrical motors and switches. Fire hazard is greater liquid temperature rises above 85° F.

DO NOT heat this container. Replace cap or bung. Emptied container still conta hazardous or explosive vapor or liquid.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent wit

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY ST MENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REG TIONS.

STORAGE AND DISPOSAL

PROHIBITIONS

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

Open dumping is prohibited. Do not reuse empty container.

STORAGE

Store in cool, dry place.

Keep pesticide in original container.

Do not put concentrate or dilute into food or drink containers.

Not for use or storage in or around the home.

Do not store diluted spray.

PESTICIDE DISPOSAL

Pesticide, spray mixture, or rinsate that cannot be used or chemically reprocess should be disposed of in a landfill approved for pesticides or buried in a safe pla away from water supplies.

CONTAINER DISPOSAL

Triple rinse (or equivalent) and dispose of in an approved landfill or bury in safe place.

GENERAL

Consult federal, state or local disposal authorities for approved alternati

Chevron Chemical Company

Ortho Agricultural Chemicals Division/San Francisco CA 94119 Richmond CA 94 Product 2738 Made in U.S.A. EPA Reg. No. 239-1281-AA

tere Recommended for AIR APPLICATION—Field Crops—3 to 10 gals.

thort residual contact insecticide for kill of insect and mite adults and larvae present

the time of application.

gin application at first sign of insects. Repeat as necessary. Do not apply within 4 is of harvest unless otherwise noted. Do not use with highly alkaline materials such lime or bordeaux.

not spray on Nectarines. Ornamental Cherries, Liquidambar or Chrysanthemums

iniury may occur.

KING DIRECTIONS: Add to spray tank when 1/4 to 1/2 full with agitator running and intain agitation until spraying is completed. Make new dilution for each use. sh metal equipment thoroughly after use to avoid corrosion.

MONDS: Peach Twig Borer—Apply only once during the dormant or delayed-dormant iod. Apply 1 pt. in combination with $1\frac{1}{2}$ to 2 gals. supreme type oil or 2 to 3 gals. mant oil spray per 100 gals, water in high gallonage spray equipment. Thorough

erage is required. Observe oil spray precautions.

INS, LIMA BEANS (Dry Form); BEANS, LIMA BEANS, PEAS (Succulent Form): Alfalfa per, Aphids, Spider Mites, Lygus, Leaf Miner; GREEN BEANS: Aphids, Spider Mites, pers, Nitidulids, Leafhoppers-1 pt. per acre in water to cover. 100 gals. per acre referable. Large Loopers, Stink Bugs $-1\frac{1}{2}$ pts. per acre in water to cover. Do not ily within 1 day of harvest. Do not feed treated vines.

OCCOLI, CABBAGE, CAULIFLOWER, BRUSSELS SPROUTS, KALE, COLLARDS: Imted Cabbageworm, Diamond-Back Caterpillars, Aphids—1 pt. per acre. Looper—2

. per acre. Do not apply within 1 day of harvest.

ERY: Aphids, Loopers, Armyworms, Salt Marsh Caterpillars, Leaf Miners—Use und application only with fine mist spray—1 pt. in 50 to 75 gals. water per acre on nts less than 3/4 grown. On larger plants use 11/2 pts. in 100 to 150 gals. water per

2. Do not apply within 1 day of harvest.

ITON: Lygus-1/2 to 1 pt. per acre by air or ground. Leaf Perforator, Fleahoppers. iyworms, Bollworms, Loopers and For Suppression of Mites-1 pt. per acre by air or und. Apply at 7 to 10 day intervals while pests persist. FOR HEAVY POPULATION OF TED INSECTS—Use 1/2 pt. per acre by air or ground in control programs with other eticides registered for use on cotton. Do not apply after first bolls open. Do not e livestock in treated fields.

UMBERS, SUMMER SQUASH: Cucumber Beetles, Aphids, Spider Mites, Loopers, ps, Armyworms—1 pt. per acre in water to cover. Pickleworms, Leaf Miners—11/2 per acre in water to cover. By Air-Use minimum of 10 gals, water per acre. May

ised up to harvest.

PLANT, PEPPERS: Aphids, Spider Mites, Blister Beetles, Flea Beetles, Leaf Miners,

tefly-I pt. per acre. May be used up to I day before harvest.

PES: Drosophila, Leafhoppers-1/2 to 3/3 pt. per 100 gals. water (100 to 130 gals. ted spray per acre depending on size of vines.) Use only 1/2 pt. per 100 gals. water Auscat varieties. CAUTION: Post-bloom applications can cause fruit russeting. Do use on Italia varieties as fruit injury may occur. Do not enter vineyards for 24 hours wing treatment. Do not apply within 1 day of harvest.
S: Aphids, Spider Mites, Corn Earworm, Hop Looper, Cutworm—1 pt. per acre. Do

apply within 4 days of harvest. Do not feed hopyard waste.

(Cantaloupes, Honeydew, Muskmelons, Watermelons), PUMPKINS, WINTER ASH: Loopers, Armyworms, Leafhoppers, Spider Mites, Leaf Miners-1 to 2 pts. acre (200 gals. diluted spray per acre.) May be used 1 day before harvest. Do not y when temperature is over 90° F.

HROOMS: Mushroom Flies (Phorid and Sciarid Adults)—Use 11/2 fl. oz. per 00 cu. ft. as a vapor, fogging or aerosol treatment. Apply with aerosols or thermal ing devices or dilute or undiluted formulations on steam pipes or hot plates. at air nozzles upward in mushroom house. Do not aim nozzle at mushrooms in the . Keep house closed for 30 to 60 minutes, but no longer than 4 hours during ment. Adequately ventilate after treatment period. Daily applications may be reed for heavy infestations for 10 to 20 days after spawning begins. For other infestatwice weekly applications are made when necessary. Do not use within 24 hours irvest.

VGES, LEMONS, GRAPEFRUIT, TANGERINES: Aphids, Soft Brown Scale Crawlers, s, Citrus Cutworms, Leaf Roller (Tortrix)-1 pt. to 100 gals. water. Thrips (Bloom) pt. per 100 gals. water. Use up to 7 days of harvest. (Calif. and Ariz.-Do not within 1 day of harvest.) Do not enter citrus groves for 24 hours following

ment.

HES (Western States Only): Lygus, Suppression of Mites, Peach Twig Borer, ital Fruit Moth-3/4 pt. to 100 gals. water. To avoid fruit spotting do not use n 30 days of harvest. Do not apply when temperature is over 90° F. Do not orchards for 24 hours following treatment.

: Grasshoppers-1/2 to 3/4 pt. per acre. Apply at first sign of insects. Do not make

than 3 applications. May be used 2 days before harvest.

ACH, CHARD, TURNIP GREENS: Aphids, Loopers, Armyworms, Salt Marsh Caterrs, Leaf Miners--Use ground application only with fine mist spray-1 pt. in 50 to als. water per acre on plants less than 3/4 grown. On larger plants, use 11/2 pts. in to 150 gals. water per acre. May be used 1 day before harvest.

LOWER (California and Arizona only): Lygus—3/4 pt. per acre. By Air—In 3 to 10 spray per acre. Do not apply within 30 days of harvest.

IWBERRIES: Leaf Roller, Spider Mites, Aphids, Omnivorous Leaf Tier, Spittlebugs

pt. per acre. May be used 1 day before harvest.

IR BEETS: Spider Mites, Leafhoppers-1 pt. per acre by air or ground. By Airin 1 to 5 gals. water per acre. Do not apply within 2 days of harvest. Do not feed r beet tops.

ICCO: Hornworm-1 pt. to 100 gals. water, using up to 200 gals. diluted spray icre. Flea Beetles-1 pt. per acre in water to cover. Apply at first sign of insects.

at as necessary.

ATOES (Field): Fruit Files (Drosophila)-1 pt. in no less than 40 gals. water per with ground sprayer, 7 to 10 gals. by air. Make first application 5 to 7 days before picking and continue at 5 to 7 day intervals until the day before harvest. (Field Breenhouse): Tomato Fruit Worm, Hornworms, Leaf Miners, Flea Beetles, Mitesin 100 gals. water. Spray plants thoroughly. For Field-Use up to 200 gals.

MATOES, CUCUMBERS: Spider Mites, Adult Whiteflies, Aphids, Leafrollers, Mealybugs -1 fl. oz. per 10.000 cu. ft. when plants are dry. Apply undiluted on heat pipes (or ir open pans on hot plates). Apply continuously or to intermittent sections of pipe on each side and on 1 or more of the pipes through center of each range depending upor width. Application to cold pipes should be followed by immediately heating pipes to 160° F. In steam heated houses, close vents for at least 1 hour after pipes are hot. With hot water systems, close house for at least 3 hours. Houses may remain closed overnight following treatment. When application is made to hot pipes, wear goggles and approved respirator. Ventilate house before workers re-enter. Wear respirator when entering treated houses to ventilate. Protect hives of bees in cucumber and other houses by covering with plastic or rubber sheet during treatment and until house is ventilated. Do not apply to tomatoes or cucumbers closer than 1 day before harvest. Spider Mites (Resistant and Non-resistant)—Make 3 to 4 treatments at 3 or 4 day intervals. Repeat as necessary. Adult Whiteflies-Make 2 applications at 7 day intervals. Repeat as necessary. Aphids—Apply when aphids appear. Repeat as necessary. WARNING-Avoid overtreatment and direct application to plants as injury may result. White Butterfly and Golden Rapture Roses, Pink Champagne Chrysanthemums, Green Wandering Jew, Poinsettias and Dutchman's Pipe may be injured by DIBROM vapor. FOREST AND SHADE TREES: CONIFERS (Arborvitae, Douglas Fir, Fir, Hemlock, Juniper, Pine, Spruce): Suppression of Two-Spot and Red Spider Mites, Aphids, Spittlebugs. Zimmerman Moths, Juniper Webworms, Tussock Moths, Spruce Budworms, Adult Sierra Fir and Western Hemlock Bark Borers. BROADLEAF TREES (Ash, Birch, Black Walnut, Box Elder, Dogwood, Elm, Evergreen Pear, Flowering Plum and Quince, Locust, Magnolia, Maple, Oak, Sycamore, Willow): Suppression of Two-Spot and Red Spider Mites, Aphids, Leaf Miners, Thrips, Elm Leaf Beetles, California Oakworms (California only), Spring and Fall Cankerworms, Fall Webworm, Oak Webworm, and Tussock Moths-1 pt. in 100 gals. water. Use when infestation is evident, repeat as necessary. FRUIT FLIES (Drosophila sp.) in and around Food Processing Plants, Loading Docks, Cull Piles and Refuse Areas, Cider Mills—Use 2 oz. in 21/2 gals. water (5 pints to 100

gals.) as a coarse spray to walls, floors, doorways, windows, refuse and cull piles where insects congregate. Apply every 5 to 7 days as necessary. Do not apply to cull fruit or refuse piles to be fed to livestock. Avoid contamination of feeds, foodstuffs and food processing machinery. Do not apply when plants are in operation or when foods are present or exposed. Do not spray surfaces which will come into contact with foods: Cover food containers during spraying.

GNAT, STABLE FLY (Dog Flies), AND HOUSE FLY CONTROL—RESIDENTIAL AREAS. CROPS LISTED ON LABEL, SWAMPS, WOODLAND: Consult your State Fish and Ganie Agency before applying this product. It is not necessary to avoid farm buildings Make applications during peak of infertetion and reneat as necessary. See crop recommendations for use limitations near harvest. This rate of application will king. shrimp. Do not apply to tidal or marsh waters which are important shrimp producing areas. AIRCRAFT: East-Apply 0.8 to 4 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. West-Apply 1.6 to 4 fl. oz. per acre diluted with water. Apply 2 to 8 .qts. of diluted spray per acre. MIST OR COLD FOG: Use 3 to 5 qts. per 100 gals. water. Calibrate equipment (rate of travel and output) to apply

O.1 to 0.25 lb. technical naled per acre.
ADULT MOSQUITO CONTROL—RESIDENTIAL AREAS, CROPS LISTED ON LABEL SWAMPS. WOODLAND AND LIVESTOCK PASTURES INCLUDING DAIRY CATTLE: Consult your State Fish and Game Agency before applying this product. Make applications during peak of infestation and repeat as necessary. See crop recommendations for use limitations near harvest. Treat shrubbery and vegetation where mosquitoes may rest. Shrubbery and vegetation around stagnant pools, marshy areas, ponds and shore lines may be treated. Direct application to water is prohibited. This rate of application will kill shrimp. Do not apply to tidal or marsh waters which are important shrimp produc ing areas. AIRCRAFT: East-Apply 0.8 to 1.6 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. WEST—Apply 1.6 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. MIST OR COLD FOG: Use 3 to 5 qts. per 100 gals. water. Calibrata equipment (rate of travel and output) to apply 0.1 lb. technical naled per acre. Do not make more than one application every 10 days to pastures or other areas where lactating dairy animals are being held.

REDUCTION OF LIVESTOCK PESTS-Gnat, Stable Fly (Dog Fly), Housefly, Mosquito: Horn Fly (Central and North Central U.S.) IN CORRALS, HOLDING PENS, FEEDLOTS AND RANGELAND CONTAINING DAIRY AND BEEF CATTLE, HOGS, SHEEP AND HORSES: AERIAL APPLICATION: Apply 4 fl. oz. diluted with 8 fl. oz. of water (total of 12 fl. oz., per acre (0.25 lb. technical naled per acre). GROUND APPLICATION: Use 5 pts. per 100 gals. water. Apply with a mist blower or similar equipment as a space treatment. Calibrate equipment (rate of travel and output) to apply 0.25 lb. technical naled per

acre (approximately 5 gals. of diluted spray).

CLOVER MITES, ROACHES, EARWIGS AND LEAFHOPPERS—Outside Dwellings and In Lawns: Use 1 fl. oz. in 3 gals. water. Apply to turf and to soil surfaces around flowers, shrubs, and trees for general pest cleanup.

GRASSHOPPERS. RANGE CATERPILLARS: Rangeland-1/2 to 3/4 pt. per acre by air or ground. Young Grasshoppers—1/2 pt. per acre by air or ground. Armyworms—1 pt. per acre by air or ground. By Air—Use in 1 to 5 gals. water per acre. Apply when hoppers hatch is completed. Repeat as necessary, Animals may be present during treatment. Do not graze lactating dairy animals on treated areas.

CONDITIONS OF SALE: 1. Chevron Chemical Company (Chevron) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed hereon. Chevron neither makes, nor authorizes any agent or representative to make, any other warranty of FITNESS or of MERCHANTABILITY, guarantee or representation, express or implied, concerning this material.

2. Critical and unforeseeable factors beyond Chevron's control prevent it from eliminating all risks in connection with the use of chemicals. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated hereon and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Chevron under 1 above) resulting from handling, storage, and use of this material.