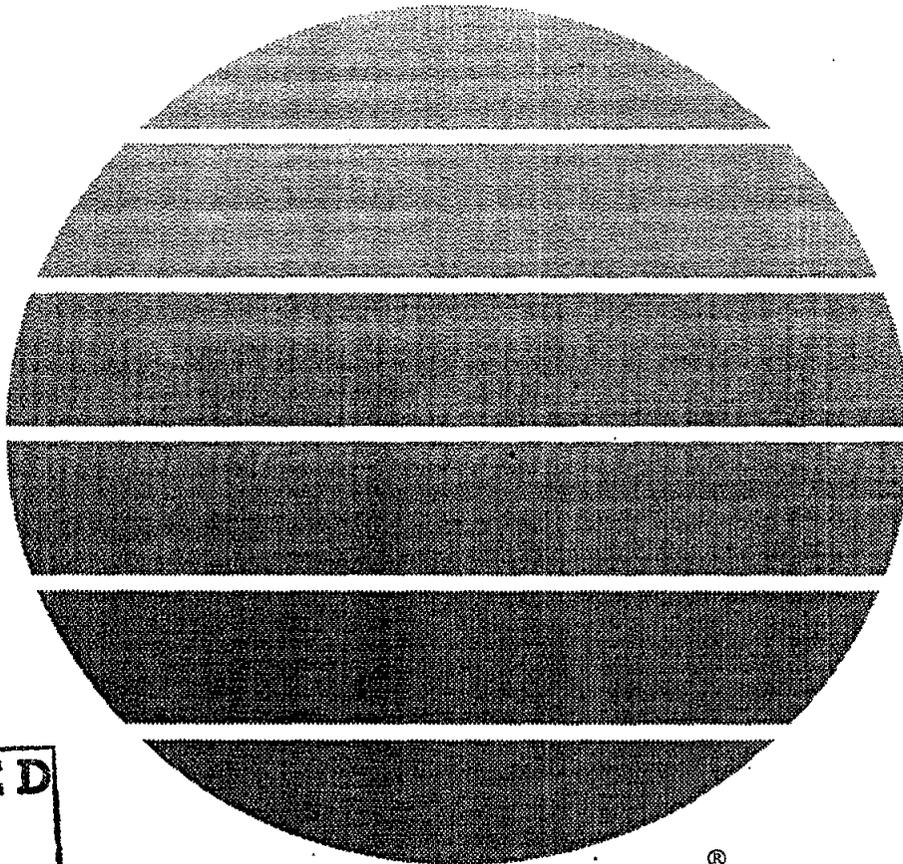




# Vydate<sup>®</sup> L

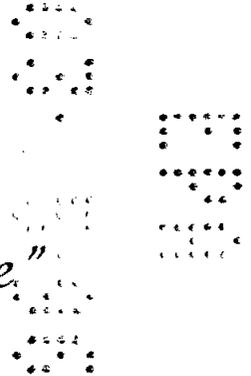
**insecticide/nematicide**

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**ACCEPTED**  
**APR 04 1996**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 352-372

*"..... A Growing Partnership With Nature."*



# RESTRICTED USE PESTICIDE

Due to Acute Toxicity And Toxicity to Birds and Mammals.

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.



## Vydate® L

### insecticide / nematicide

Water Soluble Liquid

1 GALLON CONTAINS 2 LBS. ACTIVE INGREDIENT

Active Ingredient	By Weight
Oxamyl [Methyl N,N'-dimethyl-N-[(methyl carbamoyl)oxy]-1-thioxamimidate ]	24%
Inert Ingredients	76%
TOTAL	100%

EPA Reg. No. 352-372

KEEP OUT OF REACH OF CHILDREN

DANGER



POISON

PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

#### STATEMENT OF PRACTICAL TREATMENT

This product is an N-Methyl Carbamate insecticide.

**If swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**If inhaled:** Remove from exposure and have patient lie down and keep quiet. If patient is not breathing, start artificial respiration immediately. Never give anything by mouth to an unconscious person.

**In case of contact,** wash skin with plenty of soap and water; for eyes, flush with water for 15 minutes and get medical attention; remove and wash contaminated clothing before re-use.

**ATROPINE IS AN ANTIDOTE -- SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING**

If warning symptoms appear (see WARNING SYMPTOMS), get medical attention.

For medical emergencies involving this product, call toll free 1-800-441-3637.

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER-POISON!** CONTAINS METHANOL. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. MAY BE FATAL IF ABSORBED THROUGH SKIN OR INHALED.

Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Pilot should not assist in the mixing and loading operation.

**WARNING SYMPTOMS--**Oxamyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors.

##### NOTE TO PHYSICIAN

**TREATMENT--**Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to "Vydate" L alone. However, for exposure to combinations of "Vydate" L and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

For medical emergencies involving this product, call toll free 1-800-441-3637.

##### PERSONAL PROTECTIVE EQUIPMENT

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

**Applicators and other handlers must wear:**

- Coveralls over short-sleeved shirt and short pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or neoprene rubber or polyvinyl chloride (PVC) or viton or nitrile rubber.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when cleaning equipment, mixing, or loading.
- A respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### PRECAUTIONARY STATEMENTS

(continued on next page)

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

**ENGINEERING CONTROL STATEMENTS**

**Human flaggers must be in enclosed cabs.**  
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.  
The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**USERS SHOULD:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.  
Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.  
Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic organisms (fish and invertebrates) and extremely toxic to birds. Cover or disc spill areas. Birds in treated areas may be killed. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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

**GROUND WATER ADVISORY**--Residues of "Vydate" L can seep or leach through soil and can contaminate ground water which may be used for drinking. Users are advised not to apply "Vydate" L where the water table is close to the surface and where soils are very permeable, i.e., well-drained soils such as loamy sands. Local agricultural Agencies can provide information on the soil type in your area and the location of the ground water.

**PHYSICAL AND CHEMICAL HAZARDS**

**Flammable.** Keep away from heat, sparks, and open flame. Keep container closed. Use with adequate ventilation.

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or neoprene rubber or polyvinyl chloride (PVC) or viton or nitrile rubber.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.

Du Pont "Vydate" L Insecticide/Nematicide should be used only in accordance with recommendations on this label or in separate Du Pont recommendations available through local dealers.

Du Pont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by Du Pont. User assumes all risks associated with such non-recommended use.

"Vydate" L is a water soluble liquid to be diluted with water for application. Use only in commercial and farm plantings; do not use in home plantings. Do not plant crops other than those with registered "Vydate" L uses within 4 months after the last application.

Do not use in Suffolk and Nassau Counties, Long Island, New York.

**Spray Preparation**--Fill spray tank 1/4 to 1/2 full of water. Add "Vydate" L directly to tank. Mix thoroughly while adding remaining water. No further agitation is necessary. Spray mix should not be stored overnight in spray tank.

**Chemigation**--Refer to supplemental labeling entitled, "Vydate" L Use in Chemigation Systems" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

## FRUITS

### APPLES

#### ROSY APPLE APHID

Apply 4 to 8 pts. "Vydate" L per acre at pink (before bloom - no petals open) when aphids are present in significant numbers.

#### APPLE APHID

Apply 4 to 8 pts. "Vydate" L per acre when 50% of terminals are infested.

#### SPOTTED TENTIFORM LEAFMINERS

Apply 2 to 4 pts. Vydate L per acre (1-2 pts/100 gal. dilute, not to exceed 4pts/acre) as follows:

For control of 1st Brood Leafminer: Make a single application at 1/2" green stage to early pink stage of bud development. Do not apply Vydate L after the blossom clusters have separated.

For control of 2nd Brood Leafminer: Make a single application when there are an average of two or more larvae per leaf in the sap-feeding stage. For best results, the application should be made before the larvae enter into the tissue-feeding stage. Make a second application, if needed, at 7 to 14 days after the first application.

#### EUROPEAN RED MITE AND TWOSPOTTED SPIDER MITE

Apply 2 to 4 pts. Vydate L per acre (1-2 pts/100 gal. dilute, not to exceed 4 pts/acre) when mite populations reach 2 to 4 mites/leaf and repeat at 7 to 14 day intervals as needed.

#### WHITE APPLE LEAFHOPPERS

Apply 2 to 4 pts. Vydate L per acre (1-2 pts/100 gals. dilute, not to exceed 4 pts/acre) and repeat at 10 to 14 day intervals as needed.

**NOTE: APPLY VYDATE L IN SUFFICIENT WATER TO OBTAIN THOROUGH COVERAGE BUT NOT IN EXCESS OF 400 GALS NOR LESS THAN 50 GALS PER ACRE.**

**DO NOT APPLY AT BLOOM OR WITHIN 30 DAYS AFTER BLOOM, OR FRUIT THINNING MAY OCCUR.**

**DO NOT APPLY MORE THAN 8 PTS. OF VYDATE L PER ACRE PER GROWING SEASON.**

**DO NOT APPLY TO APPLES WITHIN 14 DAYS OF HARVEST.**

**DO NOT GRAZE LIVESTOCK IN TREATED ORCHARDS.**

### BANANAS, PLANTAINS (PUERTO RICO ONLY)

For control of nematodes (Radopholus similis, and species of Pratylenchus, Meloidogyne, Rotylenchulus, Helicotylenchus), and the banana corm borer (Cosmopolites sordidus).

Apply only with the specially designed "Vydate" L spotgun applicator with a coarse spray nozzle.

#### Rate and Frequency of Application

1. At planting time - apply undiluted "Vydate" L at the rate of 5 to 10 ml. per corm or "seed" in the planting hole. Cover the treated corm with soil.

#### 2. Post-planting applications:

- a) Make a second application at the same rate 2 to 3 months after planting. If the developing pseudostem is 1 foot or less in height, the treatment should be made directly over the top, wetting the leaves and leaf axils. When pseudostem is higher, direct treatment to the soil, applying product as close as possible to the developing pseudostem in a semicircular pattern.
- b) Proceed with other applications to the soil at the same rate, but at 3 to 4 month intervals following instructions as previously indicated in 2a.
- c) When a sucker or "follower" has been selected for the production of the ratoon crop, switch the application from around the mother plant toward the selected sucker at the same rate and frequency.

Use the higher rate and shorter frequency of application when nematodes or corm borer population levels are high.

"Vydate" L is most effective when ground applications are made at the beginning of the rainy season, or when the soil moisture is adequate.

For ground applications, remove weeds and leaf trash from the treated area and apply to the bare soil.

**Note: Do not harvest for 1 day after last application. Do not permit animals to graze or forage in treated areas. Do not apply more than 2 gals per acre per year.**

### CITRUS

#### CITRUS RUST MITE

Apply 1/4 to 1 pt. "Vydate" L per 100 gals. water. Spray to run-off using up to 400 gals. of water per acre. Do not apply more than 2 qts. of product per acre.

Begin applications as soon as significant infestations are found and continue on an as-needed basis. Under light to moderate pressure, apply on 4- to 6-week intervals or as needed; whereas under moderate to heavy pressure, apply every 2 to 3 weeks as long as the infestation continues.

**DO NOT MAKE MORE THAN 6 APPLICATIONS PER YEAR.**

#### CITRUS THRIPS

Apply 2 to 4 pts of "Vydate" L per acre in sufficient water (100 to 500 gals. per acre) to give good coverage. Apply in the early spring before bloom when the new growth is about 3 to 4 inches long. Make additional applications as needed. Applications at petal fall may be critical to prevent fruit scarring. Applications are also recommended during mid-summer to protect new growth on young trees.

**Note: Do not apply to citrus within 7 days of harvest. Do not graze livestock in treated orchards. Do not handle plants or come in contact with foliage within 3 days of application. This product is toxic to bees and should not be applied when bees are actively visiting the area.**

Treatment during bloom can be made provided application is during the period from one hour before sunset until one hour after sunrise or when the ambient temperature is below 55° F. Do not apply more than 24 pts(3 gals) "Vydate" L per acre per year.

**NON-BEARING FRUITS**

"Vydate" L is recommended for use on the following non-bearing fruit trees for control of insects, mites, and nematodes:

- Apple\*    Citrus\*    Pear\*    Cherry\*
- Peach\*    Strawberry(Nurseries)\* \*\*

\* Non-bearing trees and strawberries that will not bear fruit within 12 months after application.

\*\* Note: Certain varieties of strawberries are sensitive to "Vydate" L exhibiting severe phytotoxic symptoms. Known sensitive varieties that should not be treated with "Vydate" L include Bounty, Canoga (NY 1362), Cavalier, Darrow, Dunlop, Earlidawn, Earliglow, Empire, Holiday, Marlate, Midland, Midway, Mic Mac, NY 1409, Ogallala, Redglow, Redstar, Sequoia, Stark Red, Sunrise, and Viestar. However, other varieties may also be sensitive. Therefore, "Vydate" L should be used initially only on a small scale to determine crop sensitivity prior to large scale field application.

**INSECTS AND MITES** including aphids, fungus fly, fungus gnats, Japanese beetle, leafhoppers, leafminers, mealybugs, royal palm bug, scales, thrips, white fly, and mites:

**Foliar Treatment**--Mix 2 to 4 pts. "Vydate" L per 100 gals. and apply up to 200 gals. of this mixture per acre or apply 4 to 8 pts. "Vydate" L per acre in a maximum of 600 gals. water per acre. For small areas, mix 3 to 6 tablespoons "Vydate" L per 5 to 14 gals. water and apply to 1,000 sq. ft. Apply as needed to maintain control.

**NEMATODES** including root knot (except Javanese), sting, lesion, and burrowing nematodes:

"Vydate" L may be used as a soil treatment. When transplanting, plants should be set into soil within 24 hours after application. It may also be used as a foliar treatment alone or as a supplement to the above "Vydate" L or other nematicide treatments.

**Preplant Soil Incorporation Treatment**--Apply 3 to 4 gals. "Vydate" L in a minimum of 20 gals. of water per acre. Thoroughly incorporate with a rotary tiller to a depth of 4 to 8 inches immediately after application. If applied in a band, use proportionately less material.

**Foliar Treatment**--As a foliar treatment, mix 2 to 4 pts. "Vydate" L per 100 gals. of water and apply as a dilute spray, not to exceed 8 pts. per acre. Apply on a 2- to 3-week schedule for 4 applications. Apply first spray at first full leaf or when plant is in active growth phase. Do not apply to plants under water stress or to plants not actively growing. Include a spreader sticker.

**Note:** Use only on commercial plantings; do not use on home plantings. Since varieties are numerous, continually changing, and may respond differently to "Vydate" L, test "Vydate" L on a small scale before proceeding to large-scale application. Varietal response may also vary if "Vydate" L is mixed with other products. Do not apply more than 32 pts (4 gals) per acre per season.

**PEARS**

*Use not registered in California*

**EUROPEAN RED MITE, McDANIEL MITE, TWOSPOTTED SPIDER MITE, PEAR RUST MITE**

Apply 6 to 8 pts "Vydate" L per acre in 100 to 600 gals. of water by ground. For best results use a dilute application.

Make application when mites first appear and repeat as needed to maintain control. Use lower rate on light infestations and higher rate on heavy infestations.

**Note:** Do not apply at bloom or within 30 days after full bloom, or fruit thinning may occur. Do not apply within 14 days of harvest. This product has been tested on Bartlett and d'Anjou varieties of pears without russeting. Its use on other varieties should be on a small scale until the possibility of russeting has been evaluated. Do not graze livestock in treated orchards.

Do not apply more than 8 pts (1 gal) "Vydate" L per acre per season.

**PINEAPPLE**

*Use not registered in California*

**RENIFORM AND ROOT KNOT NEMATODES**

**Preplant or Planting Treatment**--Apply 2 gals.

"Vydate" L per acre broadcast within 1 week prior to planting and incorporate 4 to 6 inches into the soil. Alternatively, apply 1 to 2 gals. "Vydate" L per acre broadcast, or apply 1/2 to 2 gal. per acre directly to the soil via drip irrigation injection, within 1 week after planting.

**Subsequent Treatments**--Apply 1/2 to 1 gal. "Vydate" L per acre by ground equipment as a foliar spray at 2 to 4 week intervals in sufficient water to obtain thorough coverage. Begin applications when pineapple roots begin to grow following planting. Alternatively, apply 1/4 to 1 gal. "Vydate" L per acre directly to the soil via drip irrigation injection at 2, 4, or 8 week intervals. For best results, subsequent applications should be made after preplant or planting application of "Vydate" L or a standard fumigant. Best results occur under optimum soil moisture conditions.

**Note:** Do not apply more than 6 gals. "Vydate" L per acre per year. Do not harvest or graze treated fields within 30 days of application.

**VEGETABLES**

**CARROTS**

*Use not registered in California*

**ROOT KNOT (EXCEPT JAVANESE), LESION, STING, SPIRAL AND STUNT NEMATODES**

**Preplant Treatment** -- Apply 2 to 4 gals. of "Vydate" L per acre in a minimum of 20 gals. water per acre, as a broadcast treatment of the soil. Apply within one week of planting. Thoroughly incorporate to a depth of 4 to 6 inches in the soil.

**In-Furrow Treatment** -- Alternatively, apply 1 to 2 gals. of "Vydate" L per acre in a minimum of 20 gals. water per acre in the seed furrow during the planting operation.

**Carrot Weevil**

Apply 2 to 4 pts. "Vydate" L per acre as a directed spray in 20 gals. water per acre. Apply up to 3 treatments, 2 to 3 weeks apart beginning when insects appear in damaging numbers. Do not apply within 14 days of harvest.

**Note:** Do not apply more than 32 pts(4 gals) "Vydate" L per acre per season.

**CELERY (FL)**

**SERPENTINE LEAFMINERS (EXCEPT LIRIOMYZA TRIFOLII)**

Apply 2 to 4 pts. "Vydate" L per acre as a foliar spray using sufficient water (minimum 5 gals per acre by air) to obtain uniform coverage. Treat when insect first appears and repeat at 5- to 7-day intervals or as needed. Use the low rates for light infestations, the intermediate rates for heavier infestations, and the highest rates for severe infestations.

**Note:** Do not apply within 14 days of harvest. Do not apply more than 24 pts(3 gals) "Vydate" L per acre per season.

**ROOT KNOT NEMATODE (MELOIDOGYNE HAPLA) AND PIN NEMATODE**

**Transplant Treatment**--Apply 1/2 to 1 gal. "Vydate" L per acre immediately after transplanting celery seedlings in the field. Use a minimum of 100 gals. of water per acre.

**Foliar Treatment**--Make two foliar applications. Apply 1 gal. "Vydate" L per acre in a minimum of 100 gals. of water as a directed spray. Apply first spray 3 weeks after transplanting. Apply second spray 3 weeks after first foliar spray.

**Preplant Row Treatment**--Apply 2 gallons per acre. Treat a band 8 to 16 inches wide on the row using 20 gallons of water per acre. Incorporate with a rotary tiller to a depth of 4 inches in the soil.

**Foliar Treatment as an Extension of Preplant Treatment**--Apply 4 pints per acre. Apply as a directed spray in a minimum of 20 gallons of water per acre. Apply two treatments 2 to 3 weeks apart beginning 2 to 3 weeks following transplanting.

**CARROT WEEVIL**

**Foliar Treatment Alone or as an Extension of Preplant Nematode Treatment**--Apply 4 pints per acre. Apply as a directed spray in a minimum of 20 gallons of water per acre. Apply three treatments 2 to 3 weeks apart beginning 2 to 3 weeks following transplanting. As an extension of the preplant treatment do not make more than 2 foliar applications.

**Note:** Do not apply within 14 days of harvest. Do not apply more than 24 pts(3 gals) "Vydate" L per acre per season.

**CUCUMBER, CANTALOUPE, HONEYDEW MELON, WATERMELON, SQUASH, PUMPKIN**

**ROOT KNOT (EXCEPT JAVANESE), LESION, RING, STING AND STUNT NEMATODES**

**Preplant and Planting Treatment** -- Apply 1 to 2 gals. "Vydate" L per acre (broadcast); for band treatment, use proportionately less. Following application and before planting, incorporate "Vydate" L 2 to 4 inches into the soil. Use the low rate for light infestations.

**Foliar Treatment** -- Apply 2 to 4 pts. "Vydate" L per acre in sufficient water to obtain uniform coverage of foliage. Make the first application 2 to 4 weeks after planting and repeat 2 to 3 weeks later. Use the lower rate on light infestations. The best results follow usage of "Vydate" L as a soil treatment as described above.

**LEAFMINERS (Liriomyza spp.), APHIDS**

Apply 2 to 4 pts. "Vydate" L per acre in sufficient water to obtain uniform coverage of foliage. Make applications when insects first appear and repeat weekly or as needed. Apply the low rate for light infestations of insects and the high rate for severe infestations.

Where leafminer infestations occur annually, initiate treatment schedule 2 to 4 weeks after planting and repeat weekly or as needed.

**Note:** Do not apply within 1 day of harvest. Do not apply more than 24 pts(3 gals) "Vydate" L per acre per season.

**EGGPLANT**

**APHIDS, COLORADO POTATO BEETLE, LEAFMINERS, AND MITES**

Apply 1 to 2 qts. "Vydate" L per acre by ground equipment as a foliar spray when insects first appear. Repeat at 1 to 3 week intervals as needed.

**NEMATODES (EXCEPT IN CALIFORNIA)**

Apply 1 gal. "Vydate" L per acre as a band treatment 2 to 3 weeks after transplanting and again 4 weeks later. Two to four weeks following these soil treatments, make 2 foliar applications of 2 qts. per acre by ground equipment at 1 to 2 week intervals.

**Note:** Do not apply within 1 day of harvest when using only foliar applications or within 7 days of harvest using soil with foliar applications. Do not apply more than 24 pts(3 gals) "Vydate" L per acre per season.

**ONIONS (DRY BULB ONLY) (MI, OR, WA, TX)**

**Onion Thrips, Western Flower Thrips**

Apply 1 to 2 pints "Vydate" L per acre in sufficient water (minimum 5 gallons) to obtain uniform coverage. Make applications when insects first appear in significant numbers and repeat at 14-day intervals if needed. For light infestations of insects, use the lower rates, increasing rates as the infestation increases.

**Nematodes**

For stubby root, stem and bulb nematodes, apply 3/4 to 1 gal. of "Vydate" L per acre at planting as an in-furrow drench using 100 to 150 gals. of water per acre, or 1 1/2 to 2 gals. per acre as an in-furrow band spray using 20 to 50 gals. of water per acre.

Note: Do not apply within 14 days of harvest. Do not harvest tops of treated onions. Do not apply more than 18 pts (2 1/4 gals) "Vydate" L per acre per season. Do not use on green onions.

## PEPPERS

*Use not registered in California*

**ROOT KNOT (EXCEPT JAVANESE), STING, RING, STUBBY ROOT, AND STUNT NEMATODES --**

**Transplant Water Treatment: Supplemental Foliar Treatments --** Apply 2 pts. "Vydate" L per acre. Add the "Vydate" L to the transplant water, and use a minimum of 200 gals. per acre. Under very high nematode populations, begin with a transplant water treatment and supplement with foliar sprays. For the best results, make the first foliar application 14 days after transplanting and continue in accordance with the foliar treatment described below.

**Note:** Do not apply as a transplant water treatment during periods of slow plant growth such as when temperatures fall below 45°F, or crop injury may result.

**GREEN PEACH APHID, VEGETABLE LEAFMINER, AND PEPPER WEEVIL --**

**Foliar Treatments --** Apply 2 to 4 pts. "Vydate" L per acre in sufficient water to obtain uniform coverage. Make applications when insects first appear and repeat at 1- to 2-week intervals or as needed. Apply low rates for light infestations of insects. Use highest recommended rates and shorter intervals for controlling severe infestations.

**Note:** Do not apply within 7 days of harvest. Do not apply more than 24 pts(3 gals) "Vydate" L per acre per season.

## POTATOES

*Use not registered in California*

**ROOT KNOT (EXCEPT JAVANESE) STING, LESION AND RING NEMATODES (EXCEPT WEST OF THE ROCKIES); APHIDS, COLORADO POTATO BEETLE, FLEA BEETLES, POTATO LEAFHOPPER, AND TARNISHED PLANT BUG --**

**Preplant Treatment --** For control of nematodes and early season control of the above insects, apply either one of the following:

**In-Furrow Treatment --** Apply 1 to 2 gals. of "Vydate" L per acre in a minimum of 20 gals. water per acre in the seed furrow during the planting operation.

**Broadcast Treatment --** Apply 2 to 4 gals. of "Vydate" L per acre in a minimum of 20 gals. of water per acre as a band or broadcast treatment of the soil within one week of planting. Thoroughly incorporate to a depth of 4 to 6 inches in the soil.

Scout fields to determine when early season control diminishes and use registered foliar insecticides including "Vydate" L to retain control.

**Foliar Treatments --** For control of the above pests, apply 2 to 4 pts. "Vydate" L per acre, except in the Midwest and Northeast where 1 to 4 pts. "Vydate" L per acre may be used for Colorado potato beetle. Use sufficient water (minimum 4 gals. per acre by air) to obtain uniform coverage. Make applications when pests first appear and

7 7 9  
repeat at 5- to 7-day intervals or as needed. Apply the low rates for light infestations. Use the higher rates for severe infestations.

**Note:** Do not apply within 7 days of harvest. Do not apply more than 36 pts(4 1/2 gals) "Vydate" L per acre per season.

## SWEET POTATOES

*Use not registered in California*

**ROOT KNOT (EXCEPT JAVANESE) AND SPIRAL NEMATODES --**

**Preplant Treatment --** Apply 2 to 3 gals. of "Vydate" L per acre in a minimum of 20 gals. of water per acre as a broadcast treatment of the soil; for band treatment, use proportionately less. Apply within one week of planting. Thoroughly incorporate to a depth of 4 to 6 inches in the soil.

**In-Furrow Treatment --** As an alternate to the above, apply 1 to 2 gals. of "Vydate" L per acre in a minimum of 200 gals. of water per acre in the transplant water during the planting of slips.

**Note:** Do not apply as a transplant water treatment during periods of slow plant growth such as when temperatures fall below 45°F, or crop injury may result. Do not apply more than 3 gals(24 pts) "Vydate" L per acre per season.

## TOMATOES

**SERPENTINE LEAFMINERS (EXCEPT LIRIOMYZA TRIFOLII), COLORADO POTATO BEETLE, APHIDS**

Apply 2 to 4 pts. "Vydate" L per acre in sufficient water (minimum 4 gal per acre by air) to obtain uniform coverage. Make application when insect first appears and repeat at 5- to 7-day intervals or as needed.

Apply the low rates for light infestations of insects. Use intermediate rates for heavier infestations of insects. Use the highest recommended rates for controlling severe infestation.

## NEMATODES

For control of root knot, sting, stubby root, stunt and reniform nematodes, apply 2 to 4 pts. "Vydate" L per acre in sufficient water (minimum 100 gals.) to obtain uniform coverage, starting as soon as plants become established and repeat at 1- to 2-week intervals throughout the season. Use higher rate and greater frequency for high nematode pressure and larger plants.

Under very high nematode populations, other effective soil treatments at or before planting may be necessary, followed by foliar sprays of "Vydate" L to extend and maintain control. Supplemental sprays of "Vydate" L should begin when nematode populations start to recover. This will depend on the longevity of protection offered by the treatment applied to the soil.

**Note:** Do not apply more than 48 pts(6 gals) "Vydate" L per acre per season. Do not apply within 1 day of harvest.

### **YAMS (DIOSCOREA) -- (PUERTO RICO ONLY)**

*For control of nematodes only on commercial farming operations.*

**Seed Piece Dip** -- Dip seed pieces into solution containing 2 to 4 qts "Vydate" L in 100 gals of water (1,200 to 2,400 PPM active ingredient) for 15 minutes. Allow to dry for 24 hrs, then plant.

**Note:** Protective clothing must be worn throughout the dipping and planting period. Do not handle treated seed pieces without hand protection.

**Foliar Sprays** -- For best results, as a supplement to the seed piece dip, apply "Vydate" at the rate of 2 pts per acre at 2-week intervals. Use sufficient water to obtain complete coverage of the foliage (minimum 25 gals per acre). Begin applications when adequate foliage is present to absorb the "Vydate" L - approximately two months after planting - and continue for a maximum of twelve applications.

**Note:** Make foliar applications wearing full protective clothing during nonwindy conditions. Do not allow "Vydate" L spray to drift away from the target crop.

**Note:** Do not apply within 60 days of harvest. Do not apply more than 24 qts (6 gals) "Vydate" L per acre per season.

## **FIELD CROPS**

### **COTTON**

#### **COTTON LEAFPERFORATOR**

Apply 1 to 4 pts. "Vydate" L per acre in sufficient water to obtain thorough coverage. Make initial applications when damaging populations begin to build, and continue on a 6 to 8 day schedule for up to 4 applications. Do not apply more than 2 gals "Vydate" L per acre per growing season

#### **BOLL WEEVIL, COTTON FLEAHOPPER, AND TARNISHED PLANT BUG**

Apply 1/2 to 1 pt. "Vydate" L per acre in sufficient water to obtain thorough coverage. Begin applications when damaging populations appear and repeat as needed to maintain control. Do not apply more than 1 1/4 gals "Vydate" L per acre per growing season

**Note:** Do not apply within 21 days of harvest. Do not graze or feed treated cotton to livestock.

### **PEANUTS**

*Use not registered in California*

#### **ROOT KNOT (EXCEPT JAVANESE), STING, RING, AND LESION NEMATODES, AND THRIPS--**

**Soil Treatment**--Apply 2 to 6 qts. of "Vydate" L in a 7" to 12" band using a minimum of 10 gals. of water per acre. Thoroughly incorporate with a rotary tiller to a depth of 3" to 5" immediately after application. Use the higher rate and wider band for severe infestations. Peanuts should be planted within 24 hours after application. Alternatively, "Vydate" L may be applied in a 7" band immediately behind planting. Use 2 to 6 qts. in a minimum of 10 gals. water per acre.

**Foliar Treatment**--Foliar treatment is to be used only following soil fumigation, or following preplant or at planting soil application of "Vydate" L or other contact nematicides. Make 2 foliar applications of "Vydate" L at 2 to 4 pts. per acre in 20 to 40 gals. of water. Apply first spray 3 weeks after emergence and the second spray 6 weeks after emergence. For best results, concentrate the spray on the row using 3 cone-type nozzles positioned over and to each side of the row. Thorough spray coverage is important.

**Note:** Do not apply more than 20 pts(2 1/2 gals) "Vydate" L per acre per season.

### **SOYBEANS**

*Use not registered in California*

#### **ROOT KNOT (EXCEPT JAVANESE), LESION, RING, STUNT, LANCE, AND CYST NEMATODES--**

**Infurrow Band Treatment**--Apply 2 to 4 pts. "Vydate" L in 10 to 20 gals. of water per acre (based on 36" row spacing) at planting. Spray over open drill row at the juncture where the seed is covered with soil to assure mixing of "Vydate" L with the soil around the seed.

**Incorporated Band Treatment**--Apply 2 to 4 pts. "Vydate" L in 10 to 20 gals. water per acre to a 7" to 10" band in the drill area (based on 36" row spacing) as a preplant treatment (up to 1 week before planting) or as a treatment at planting. Incorporate the "Vydate" L 2" to 4" into the soil in the seed zone.

**Incorporated Broadcast Treatment**--Apply 1 to 2 gals. of "Vydate" L in 10 to 20 gals. of water per acre as a preplant treatment (up to 1 week before planting) or as a treatment at planting. Incorporate the "Vydate" L 2" to 4" into the soil in the seed zone.

**Note:** Do not cut for hay or feed treated forage to livestock. Do not apply "Vydate" L to areas with severe infestations of nematodes such as where injury to plants is manifested by severe stunting and chlorosis, as "Vydate" L will not control severe infestations.

Do not apply more than 16 pts (2 gals) "Vydate" L per acre per season

### **TOBACCO**

#### **ROOT KNOT (EXCEPT JAVANESE) AND LESION NEMATODES AND FLEA BEETLES**

**Soil Treatment**--"Vydate" L may be applied to the soil as a band treatment or it may be broadcast, disced, and bedded. For best results, the tobacco should be transplanted within 24 hours after soil treatment.

**Row Treatment**--Apply 1 gal. of "Vydate" L in a 4 1/2 to 24-inch band in a minimum of 20 gals. of water per acre of tobacco (12,000 row feet). Thoroughly incorporate with a rotary tiller to a depth of 4 to 6 inches.

**Broadcast and Bed Treatment**--Apply a broadcast spray of 1 gal. per acre in a minimum of 40 gals. of water. Incorporate thoroughly to a depth of 4 to 6 inches and bed the field in such a manner that only treated soil is used for the beds.

**Note:** Do not apply more than 1 gal. "Vydate" L per acre per growing season.

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### **STORAGE AND DISPOSAL**

**STORAGE:** Do not subject to temperatures below 32 degrees F. Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.. Not for use or storage in or around the home.

**PESTICIDE DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. 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) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**NOTICE TO BUYER--**Purchase of this material does not confer any rights under patents of countries outside of the United States

### **NOTICE OF WARRANTY**

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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