

07760-28

PM-04

4-8-98

1/12

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number
247341

Application for Pesticide - Section I

1. Company/Product Number 67760 - 28	2. EPA Product Manager T. Levine	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Cheminova NUFOS 4E Insecticide	PM# N/A-04	
5. Name and Address of Applicant (Include ZIP Code) Cheminova, Inc. 1700 Route 23, Suite 210 Wayne, NJ 07470 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION APR - 8 1998
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional pages if necessary. (For section I and Section II.) Notification of use direction clarification as per Directions updated to specify maximum application amounts of CHLORPYRIFOS (changed from PR- Notice 95-2 old label which specified maximum amounts of NUFOS 4E and did not take into account other Chlorpyrifos products)

* * Notification statement as per PR Notice 95-2 is included on submission cover letter * *

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
		If "Yes" Package wgt.	No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name P. Leanne Pruett	Title Mgr. of Regulatory Affairs	Telephone No. (Include Area Code) (973) 305-6600
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>P. Leanne Pruett</i>	3. Title Mgr. of Regulatory Affairs	
4. Typed Name P. Leanne Pruett	5. Date March 16, 1998	

BEST-IMAGE AVAILABLE

CHLORPYRIFOS

Nufos™

INSECTICIDE

4E

For control of various insects infesting certain field, fruit, nut and vegetable crops

NOTIFICATION

APR - 8 1998



BEFORE USING
THIS PESTICIDE
STOP
READ THE LABEL

Active Ingredient:

Chlorpyrifos: 0,0-Diethyl 0-(3,5,6-trichloro-2 pyridinyl) phosphorothioate	44.2 %
Inert Ingredients	55.8 %
Total	100.0 %

This product contains 4 pounds of Chlorpyrifos per gallon. Contains aromatic petroleum distillates.

KEEP OUT OF REACH OF CHILDREN WARNING

AVISO

AL USARIO: Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle.
(TO THE USER: If you do not understand the label, find someone to explain it to you in detail.)
May be fatal if swallowed • Causes substantial but temporary eye injury or skin irritation
Harmful if absorbed through skin • Do not get in eyes, on skin, or on clothing.

IN CASE OF A MEDICAL EMERGENCY, PLEASE CALL TOLL FREE,
DAY OR NIGHT, 1-800-228-5635, EXT. #153.

First Aid

First Aid: In case of poisoning, call a physician or Poison Control Center immediately. Have person lie down and keep quiet.
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 (be aware that product contains aromatic petroleum distillates). If person is unconscious, do not give anything by mouth and do not induce vomiting.
If On Skin: Wash with plenty of soap and water. Get medical attention.
If In Eyes: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.
Note to Physician: This product is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote.
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Manufactured by:
Cheminova, Inc.
1700 Route 23, Suite 210,
Wayne, NJ 07470

EPA Reg. No.: 67760-28

PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

Keep Out Of Reach Of Children

WARNING

- May be fatal if swallowed •
- Causes substantial but temporary eye injury or skin irritation •
- Harmful if absorbed through skin •
- Do not get in eyes, on skin, or on clothing. •

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

- Applicators and other handlers must wear:
- Coveralls over short-sleeved shirt and short pants
 - Socks
 - Chemical-resistant footwear
 - Chemical-resistant (such as nitrile, butyl, barrier laminate, or Viton) gloves
 - Protective eyewear such as goggles and face shield
 - Overhead exposure: Wear chemical-resistant headgear
 - Mixers/Loaders: Wear a chemical-resistant apron
 - For cleaning equipment: Add a chemical-resistant apron

Discard clothing and 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.

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 PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID

Organophosphorus pesticide

In case of poisoning, call a physician or Poison Control Center immediately. Have person lie down and keep quiet.

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 (be aware that product contains aromatic petroleum distillates). If person is unconscious, do not give anything by mouth and do not induce vomiting.

If on skin: Wash with plenty of soap and water. Get medical attention.

If in eyes: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

Note to Physician: Chlorpyrifos is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. Antidote: Administer atropine sulphate in large doses, TWO TO FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is a pharmacological antidote and may be administered as an adjunct to, but not a substitute for atropine, which is a symptomatic and often lifesaving antidote. DO NOT GIVE MORPHINE OR TRANQUILIZERS. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of Chlorpyrifos may occur and relapse may occur after initial improvement; VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal 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 it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your cooperative agricultural extension service.

PHYSICAL OR CHEMICAL HAZARDS

Refer to additional precautionary information elsewhere on this label including Personal Protective Equipment (PPE) and Directions for Use including Agricultural Use Requirements and Storage and Disposal.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying. 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. This product cannot be reformulated or repackaged into other end use products.

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 exemptions 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 within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170).

Do not enter or allow worker entry into treated areas during Restricted Entry Interval (REI) of 24 hours.

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, wear:

- Coveralls over short-sleeved shirt and short pants
- Socks
- Chemical-resistant footwear
- Chemical-resistant (such as nitrile, butyl, barrier laminate, or Viton) gloves
- Protective eyewear such as goggles and face shield
- Overhead exposure: wear chemical-resistant headgear

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container in secured dry storage area. Protect against strong heat from sunshine or other source. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. Storage below 21°F may

result in formation of crystals. If product crystallizes, store at 50 to 70°F and agitate to redissolve crystals. If container is damaged or if the pesticide is leaking or has been spilled, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

Container Disposal for Refillable Containers: Follow instructions provided with or on the container. Call Cheminova Customer Service at 1-800-548-6113 for additional information. If the container has been damaged and cannot be returned according to the recommended procedures, contact Cheminova Customer Service to obtain proper handling instructions.

Container Disposal for Non-Refillable Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, or:

Triple rinse (or equivalent). Then puncture and dispose in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

Nufos™ 4E insecticide forms an emulsion when diluted with water and is suitable for use in all conventional spray equipment. Consult your state experiment station or state extension service for proper timing of applications.

GENERAL USE PRECAUTIONS

Do not use on turf or for structural pest control. Do not formulate this product into other end use products.

MIXING DIRECTIONS

To prepare the spray, add a portion of the required amount of water to the spray tank and with the spray tank agitator operating add the Nufos 4E. Complete filling the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

Nufos 4E may also be used in tank mixtures with certain herbicides and/or with non-pressure fertilizer solutions as recommended under specific crop use directions. Prepare tank mixtures in the same manner as recommended above for use of Nufos 4E alone. When tank mixtures of Nufos 4E and herbicides are involved, add wettable powders first, flowables second, and emulsifiable concentrates last. Where a fertilizer solution is involved, it is strongly recommended that a fertilizer pesticide compatibility agent such as Unite or Complex be used. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Do not allow spray mixtures to stand overnight.

Note: Test compatibility of the intended tank mixture before adding Nufos™ 4E to the spray or mix tank. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used.

SPRINKLER IRRIGATION

Nufos 4E may be applied by sprinkler irrigation for the following crop uses: alfalfa, citrus orchard floors, field corn, mint, popcorn, sweet corn, cotton, cranberries, sorghum, and soybeans.

See the use sections for the individual crops for further application information. Do not apply this product to the above listed crops through any other type of irrigation system. Do not apply this product by chemigation to any other crop.

SPECIAL USE DIRECTIONS

The following use directions are to be followed when Nufos 4E is applied through sprinkler irrigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues, and dispose of the residues according to State and Federal laws. Flush the injector with soap and water. Determine the amount of insecticide needed to cover the desired acreage. Pump the required Nufos 4E into a steel tank, start mechanical or hydraulic agitation, and add in order the non emulsifiable oil and/or water. Continually agitate the mixture containing Nufos 4E. Set the sprinkler system to deliver the desired inches of water per acre. Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injector system according to number 14 in "Special Use Precautions" on this page. The mixture containing Nufos 4E must be injected continuously and uniformly into the irrigation water line as the sprinkler is moving. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

SPECIAL USE PRECAUTIONS

The following use precautions will result in a safe and successful application of mixtures containing Nufos™ 4E.

1. Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, micro sprinkler, or hand move. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

3. If you have questions about calibration, you should contact state extension service specialists, equipment manufacturers or other experts.

4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

5. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

6. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. Refer to the American Society of Agricultural Engineer's Engineering Practice 409 for more information.

7. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

8. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

11. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. The metering pump must provide a greater pressure than that of the irrigation system at the point of injection. The pump must meet Section 675 for "Electrically Driven or Controlled Irrigation Machines" NEC 70 and must contain Viton or Teflon seals.

12. To insure uniform mixing of the insecticide into the water line, inject the mixture through a nozzle placed in the fertilizer injection port or just ahead of an elbow or tee in the irrigation line so that the turbulence created at those points will assist in mixing. It is suggested that the injection point be higher than the insecticide tank to prevent siphoning.

13. The steel tank holding the insecticide mixture should be large enough to allow the system to complete a revolution with one filling. It should be free of rust, fertilizer, sediment, and foreign material, and equipped with an in-line strainer situated between the tank and the injector pump.

14. In order to calibrate the irrigation system and injector to apply the mixture containing *Nufos*[®] 4E, determine the following:

- 1) Calculate the number of acres irrigated by the system
- 2) Set the irrigation rate and determine the number of minutes for the system to cover the intended treatment area
- 3) Calculate the total gallons of insecticide mixture needed to cover the desired acreage. Divide the total gallons of insecticide mixture needed by the number of minutes to cover the treatment area. This value equals the gallons per minute output that the injector must deliver. Convert the gallons per minute to milliliters or ounces per minute. Calibrate the injector pump with the system in operation at the desired irrigation rate. It is suggested that the injector pump be calibrated at least twice before operation, and the system should be monitored during operation.

15. Do not apply when wind speed favors drift beyond the area intended for treatment. End guns must be turned off during the application, if they irrigate nontarget areas.

16. Do not allow irrigation water to collect or runoff and pose a hazard to livestock, wells, or adjoining crops.

17. Allow foliage to dry before reentering the field.

18. Do not apply through sprinkler systems which deliver a low coefficient of uniformity such as certain water drive units.

APPROVED CROPS

ALFALFA

Use *Nufos*[®] 4E to control the following pests at the dosages indicated by application as a broadcast, foliar spray:

PESTS	<i>Nufos</i> [®] 4E
<i>Aphids</i> (suppression)	1/2 pint/acre
<i>Corn Rootworm Adults</i> (<i>Spotted Cucumber Beetle</i>) <i>Grasshoppers</i>	1/2-1 pint/acre
<i>Alfalfa Blotch Leaf Miner</i> <i>Alfalfa Caterpillar</i> <i>Alfalfa Weevil Larvae and Adults</i> <i>Armyworms</i> <i>Blue Alfalfa Aphid</i> <i>Cutworms</i> <i>Egyptian Alfalfa Weevil Larvae and Adults</i> <i>Pea Aphid</i> <i>Plant Bugs</i> <i>Leafhoppers</i> <i>Spittlebugs</i>	1-2 pints/acre

Note: Use higher rates to control *Spotted Alfalfa Aphid* in California and Nevada. Stubble spray may be applied to control *Leafhopper* in the Northeast.

Mix the required dosage with enough water to ensure thorough coverage of crop foliage and apply using aerial (fixed wing or helicopter) or power operated ground spray equipment. For aerial application use 2 to 5 gallons of water per acre. For best coverage when using ground application, a minimum of 20 gallons of water per acre with hollow cone nozzles is recommended. Control may be reduced at low spray volumes under high temperature and wind conditions. Treat when field counts or crop injury indicates that damaging pest populations are developing or present; however, do not apply more than once per crop cutting. Some reduction in insect control may be evident under excessively cool conditions. For *Egyptian Alfalfa Weevil* control in California apply the specified dosage in a minimum of 5 gallons of water per acre when larvae are actively feeding and populations reach 15 to 20 larvae per 180' sweep with a 15-inch diameter net.

Nufos[®] 4E may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of *Nufos* 4E per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

Nufos 4E should not be tank mixed with pesticides, surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under your current conditions of use. Some phytotoxic symptoms may be observed on young, tender rapidly growing alfalfa when treated with *Nufos* 4E. Alfalfa will outgrow the symptoms and no yield loss should be expected.

This product is highly toxic to bees exposed to direct treatment on alfalfa. Do not apply if nearby bees are clustered outside of hives and bees are foraging. Precaution information may be obtained from your agricultural extension service.

Restrictions

Do not cut or graze treated alfalfa within 7 days after application of 1/2 pint of *Nufos* 4E per acre, within 14 days after application of 1 pint per acre, or within 21 days after application of rates above 1 pint per acre. Do not make more than 4 applications per year or apply more than once per crop cutting.

ASPARAGUS

Use *Nufos* 4E to control *Cutworms*, *Asparagus Aphids*, and *Asparagus Beetles* by application at the rate of 2 pints per acre. Mix the specified dosage in sufficient water to ensure thorough coverage of treated plants and apply as a broadcast, foliar spray. For *Cutworms* it is preferable to apply *Nufos* 4E when the soil is moist and worms are active on or near the soil surface. Applications may be made during the fern stage for control of *Asparagus Beetles* and *Asparagus Aphids* when field counts or crop injury indicates that damaging pest populations are developing or present.

Restrictions

Do not make more than one preharvest application per season or apply within one day of harvest. Do not make more than two postharvest applications during the fern stage. Based on available residue data, the use of *Nufos* 4E on asparagus is limited to the Midwest and Pacific Northwest.

CHERRIES

Use *Nufos* 4E for the control of *Lesser Peach Tree Borer*, *Greater Peach Tree Borer*, and *American Plum Borer* by application as a trunk spray. Mix 1 1/2 to 3 quarts of *Nufos*[®] 4E with 100 gallons of water and apply as a coarse, low pressure spray to give uniform coverage of tree trunks and lower limbs. Make a second application two weeks after the first one and a third application after harvest. Avoid contact with foliage in sweet cherries as premature leaf drop may result. Consult your state agricultural experiment station or extension service specialist for proper time to treat in your area.

In addition, one of the three allowable applications per year may be applied as a dormant spray for control of *San Jose Scale*, *Peach Twig Borer*, and *Climbing Cutworms*. For control of these pests, tank mix 1/2 to 1 pint of *Nufos* 4E with 1 to 2 gallons of a petroleum oil recommended for dormant use in 100 gallons of water and spray the entire tree by application to runoff using ground spray equipment. For low volume (concentrate; sprays (41 to 120 gallons of spray mixture per acre) use the same amounts of *Nufos* 4E and spray oil per acre required for application as a dilute spray and apply in a manner that will ensure thorough coverage of the trees. Use the higher dosage of *Nufos* 4E for severe infestations. Use oil as recommended by your state agricultural experiment station or extension service specialist.

Restrictions

Make only three applications per year. Do not apply within 60 days before harvest. Do not allow meat or dairy animals to graze in treated orchards.

CHRISTMAS TREES (NURSERIES AND PLANTATIONS)

Use *Nufos* 4E at the rate indicated to control the following insects on the tree: *Greenhouse*, etc.

Restrictions

Use *Nufos* 4E on tree plantations only in Connecticut, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Vermont, Virginia, Washington, and Wisconsin.

Do not allow livestock to graze in treated areas.

Tree Variety	Insects Controlled	Dosage Nufos 4E	Remarks
Balsam Fir Blue Spruce Concolor Fir Douglas Fir Eastern White Pine Fraser Fir Grand Fir Noble Fir Scotch Pine White Spruce	Ants Aphids Adelgids (Cooley) (Eastern Spruce Gally) European Pine Sawfly European Pine Shoot Moth Grasshoppers Gypsy Moth Mites * (European Red Spider) (Two Spotted Spider (except in WA & OR)) Pales Weevil (Adult) Pine Needle Midge Pine Spittlebug Plant Bugs Spittlebug Spruce Budworm Spruce Needleminer Scale * (Pine Needle) (Pine Tortoise) (Spruce Bud) (Black Pine) (Striped Pine)	1 qt./acre	Do not treat plants under extreme heat and drought stress. Apply to foliage in sufficient water to ensure adequate coverage. 1. For effective control of adult Spider Mites if large numbers of eggs are present, apply a second spray 7-10 days after initial treatment to control newly hatched nymphs. 2. For Scale control apply when scale crawlers are active.
	Pales Weevil	3 qt./100 gal.	Apply as a cut stump drench

CITRUS FRUITS

Use Nufos 4E at the rates indicated according to the designated geographic area to control the following pests. Use the lower rates for light infestations and increase the dosage for heavier infestations.

A petroleum spray oil recommended for use on citrus trees may be added to dilute spray mixtures only at a rate of up to 1.8 gallons per 100 gallons of water to improve control of Aphids, Mealybugs, Scale insects, and Thrips. Treat when insects become a problem or in accordance with the local spray schedule recommended by your state extension service specialist.

Nufos 4E may be applied in tank mixtures with ethion, dicofol, AgriMek* or Vendex*. See "Mixing Directions" for further instructions. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with Nufos 4E.

Precautions

Observe local use directions for tank mix combinations especially in regard to applications of Nufos 4E plus spray oil. Consult with a county farm advisor, county agency, extension service personnel, agricultural commissioner, pest control advisor, or local Cheminova representative for such information regarding a given locality.

Do not apply when trees are stressed by drought or high temperatures. Nufos 4E should not be tank mixed with Citolatan* 80. Sprits as crop injury may occur.

Nufos 4E is highly toxic to bees exposed to direct treatment and should not be applied when bees are actively visiting the area. During the bloom period in California, apply from one hour after sunset until two hours before sunrise.

Restrictions

Do not apply more than 2 applications or more than 15 pints of Nufos 4E or 7.5 lbs. active ingredient per acre per year. Do not make second foliar application within 30 days of the first application. Do not treat within 21 days of harvest for applications up to 7 pints of Nufos 4E per acre nor within 35 days for application of rates above 7 pints per acre. Do not do any work involving contact with trees within 2 days after treatment. Do not allow livestock to graze in treated areas.

CITRUS ORCHARD FLOORS

Use Nufos 4E to control Red Imported Fire Ants and other ant species by applying the specified dose in 25 or more gallons of water with ground application equipment that will uniformly apply the spray to the orchard floor. To control foraging ants and suppress mounds, apply Nufos 4E to the orchard floor at the rate of 3/4 to 1 quart per acre. Retreat as needed. For best insect control, uniform coverage of the orchard floor is necessary. Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Do not apply in tank mixtures with Evik* herbicide. Foliar applications of Nufos 4E may be made in addition to the orchard floor treatments.

Nufos 4E may also be applied to citrus orchard floors through sprinkler irrigation systems only if the system uniformly covers the soil surface at the base of the tree. For best results, use the recommended amount of Nufos 4E per acre. See "Sprinkler Irrigation" section for further information.

Restrictions

Do not apply more than 10 quarts of Nufos 4E or 5 lbs. active ingredient per acre per season. Do not apply last treatment within 21 days before harvest. Do not allow livestock to graze in treated areas. In Florida, do not apply more than 3 quarts per season.

CITRUS FRUIT					
Crop	Geographic Location	Pest	Dosage of Nufos 4E (pt./acre)	Spray Volume (gal./acre)	Remarks
Grapefruit Lemons Oranges and other citrus fruit	California Arizona	Aphids Katydid Lepidopterous Larvae Avocado Leafroller Cutworms Fruit Tree Leafroller Orange Tortrix Western Tussock Moth	2-7	ground: 100-750 aerial: min. of 15	Do not use a spray concentration of Nufos 4E of less than 1/2 pt./100 gal. of total volume
		Scale Insects Black Scale Brown Soft Scale California Red Scale	8-12	100-2400	
		Thrips (suppression) Mealybugs	6-12	100-750	
Additional Precautions for California and Arizona: Nufos 4E should not be used in combination with spray oil when temperatures are expected to exceed 95°F the day of application or for several consecutive days thereafter. Do not apply during the months of December, January or February.					
Florida		Aphids Grasshoppers* Orange Dogs Mealybugs Scale Insects Snow Scale Florida Red Scale Purple Scale Long Scale Chaff Scale Black Scale Brown Soft Scale	2-7	ground: 100-1400 aerial: min. of 20	Do not use a spray concentration of Nufos 4E of less than 1/2 pt./100 gal. of water per acre.
		Citrus Rust Mites	4-7	100-700	Do not use a spray concentration of Nufos 4E of less than 1 pt./100 gal. of water per acre.
* Lubber Grasshoppers must be controlled when they are small (less than 1 inch in length) by direct contact with spray					
Texas		Aphids Cutworms Katydid Mealybugs Scale Insects Brown Soft Scale California Red Scale Chaff Scale	4-7	200-700	Do not use less than 1/2 pt. of Nufos 4E per 100 gallons of water in dilute applications.
		Citrus Rust Mites (suppression)	4-7	200-700	
small transplanted Grapefruit, Orange and other citrus trees	Texas	Aphids Cutworms Katydid Mealybugs Scale Insects Brown Soft Scale California Red Scale Chaff Scale	Max. of 7		Apply Nufos 4E at a rate of 1 fl. oz./1 gal. of water with a backpack sprayer. Apply to trunk.

*2

CRANBERRIES

Use **Nufos™ 4E** by application as a broadcast, foliar spray to control *Brown Spanworm*, *Cranberry Fruitworm*, *Cranberry Weevil*, *Cutworms*, *Fireworms*, and *Sparganothis Fruitworms* at the rate of 3 pints per acre. Mix the specified dosage in enough water to ensure thorough coverage and apply no less than 5 gallons of spray per acre when using aerial equipment or no less than 15 gallons of spray per acre when using ground equipment. For weevil control, apply once at flower bud development (late May, early June) and, if weevils are present, once after 100% bloom (early to mid July). For other insects, treat when field counts indicate damaging insect populations are developing or present. Apply only after the winter flood has been removed. To avoid pesticide contamination of flood waters, make no applications while bogs are flooded.

Nufos 4E may also be applied through sprinkler irrigation systems to control the above listed pests. For best results, use the recommended rate of **Nufos 4E** per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

Restrictions

Do not make more than two applications per year or apply within 60 days before harvest.

FIELD CORN, POPCORN, SWEET CORN (INCLUDING CORN GROWN FOR SEED)

For use to control *Cutworms*, *Armyworms*, *Corn Earworm*, *Corn Rootworm Adults*, *Chinch Bugs*, *Grasshoppers*, *Wireworms*, *Flea Beetle Larvae and Adults*, *Aphids*, *Billbugs*, *Grubs*, *Western Bean Cutworm*, *Corn Borers*, *Symphylans*, *Common Stalk Borer*, and *Lesser Cornstalk Borer*.

Preplant Incorporation Treatment

Use **Nufos 4E** at the following rates by application in sufficient water to the soil surface and incorporate into the soil.

PESTS	Nufos 4E
Cutworms, Symphylans	2-4 pints/acre
Wireworm, Billbugs, Flea Beetle Larvae, Grubs, Seed Corn Maggots, Seed Corn Beetle	4 pints/acre
Lesser Cornstalk Borer, Corn Rootworm Larvae	6 pints/acre

Use recommended rate in not less than 10 gallons of water per acre and apply as a broadcast spray to the soil surface using suitable power-operated ground spray equipment. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil using a disc, field cultivator or equivalent equipment.

Nufos 4E may also be applied in tank mixtures with non pressure fertilizer solutions and/or with Bladex®, Eradicane®, Sutan®, Lasso®, Dual®, and atrazine herbicides. See "Mixing Directions" section for further information. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with **Nufos 4E**.

Preplant, At-Plant or Preemergence Treatment in Conservation Tillage

Use **Nufos 4E** at the following rates by application in sufficient water to surface trash and exposed soil:

PESTS	Nufos 4E
Cutworms Armyworms	1-2 pints/acre

Use recommended rate in not less than 20 gallons of water per acre and apply as a broadcast spray using suitable power operated ground spray equipment. Use higher rates for residual control.

Nufos 4E may also be applied in tank mixtures with non pressure fertilizer solutions and/or with paraquat and Roundup® and Glyfos® herbicides. See "Mixing Directions" section for further information. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with **Nufos 4E**.

Cultivation Time Treatment

Use **Nufos 4E** at the rate of 2 pints per acre to control *Corn Rootworm Larvae*. Apply **Nufos 4E** as a water emulsion on both sides of the row at the base of the plants just ahead of the cultivator shovels. Cover the insecticide with soil around the brace roots. The best time to apply a basal treatment of a soil insecticide with cultivation is near the beginning of egg hatch. A cultivation application of **Nufos 4E** may be made in addition to an at planting application of **Nufos 15G** or **Lorsban 15G** granular insecticide.

Postemergence Treatment

Use **Nufos 4E** at the following rate by application in sufficient water to ensure thorough coverage of treated plants:

PESTS	Nufos 4E
Grasshoppers	1/2-1 pint/acre
Armyworms Chinch Bugs Aphids Corn Rootworm Adults Webworms Western Bean Cutworm European Corn Borer (see note)	1-2 pints/acre
Southwestern Corn Borer Corn Earworm	1 1/2-2 pints/acre
Billbugs Lesser Cornstalk Borer Flea Beetle Adults Common Stalk Borer	2-3 pints/acre

Note: The recommended dosage will control silk clipping by *Corn Rootworm Adults*. For *European Corn Borer* control, use 1 1/2 to 2 pints per acre when application is made with power-operated ground and aerial equipment and 1-2 pints/acre when application is made through a sprinkler irrigation system. See text below for generation specific treatment.

Treat when field counts indicate that pests are or may become a problem. For best *Billbug*, *Chinch Bug*, and *Flea Beetle* control, apply with sufficient water to ensure a minimum spray volume of 20 to 40 gallons per acre and 40 psi using ground spray equipment. On corn less than 6 inches tall, apply the insecticide spray in a 9 to 12 inch wide band over the row. On corn greater than 6 inches tall, apply the insecticide spray using drop nozzles directed to the base of the plant. Do not reduce the dosage for banded or directed applications. Concentrate the full labeled dosage rate in the treated zone. When *Chinch Bugs* continue to immigrate to corn over a prolonged period or under extreme pressure, a second application of **Nufos 4E** may be needed.

For *Cutworm*, *Webworm*, *Western Bean Cutworm*, *Armyworm*, *Aphid*, *European* and *Southwestern Corn Borer*, *Grasshopper*, *Lesser Cornstalk Borer*, *Corn Rootworm Adult*, *Corn Earworm*, and *Common Stalk Borer* control, apply as a broadcast spray using either aerial (fixed wing or helicopter) or power-operated ground spray equipment. For aerial application use 2 to 5 gallons of spray per acre. Control may be reduced at low spray volumes under high temperature and wind conditions.

For *Cutworms*, it is preferable to apply **Nufos 4E** when soil is moist and worms are active on or near the soil surface. If ground is dry, cloddy or crusty at time of treatment, worms may be protected from the spray and effectiveness will be reduced. If such conditions exist, shallow incorporation using a rotary hoe or other suitable equipment immediately before or soon after treatment may improve control. Apply as needed to maintain control. Use higher rate for larger worms or when heavy cutworm infestations are expected or present. Fields should be monitored for cutworm presence or damage. A second application may be required if damage or density levels exceed economic thresholds established for your area. Consult your agricultural experiment station or extension service specialist for additional information concerning control practices in your area.

For *Webworm* control, shallow incorporation using a rotary hoe or other suitable equipment immediately before or soon after treatment is necessary.

For *first-generation European Corn Borer* control, treat when 25 to 50 percent of the corn plants show pinhole feeding or leaf-feeding scars. For maximum control potential, ground applications of **Nufos 4E** should be directed into the corn leaf whorls. Scout fields within 5 days after application to determine if a second application is needed. University research indicates that achieving greater than 50% control of first-generation European borer with a single liquid insecticide treatment is highly dependent on timing, insecticide placement and weather conditions. Treatment for control of *second-generation European Corn Borer* should be applied when field counts of egg masses indicate an infestation is present or about to develop.

For *Southwestern Corn Borer* control, treat when field counts of egg masses indicate pests are or may become a problem. A second application may be applied 10 to 14 days later, if needed due to reinfestation. For *Common Stalk Borer* control, treat approximately 11 days after application of **Glyfos**® or **Roundup**® herbicide or after complete burndown with paraquat herbicide (3 to 5 days). Do not use **Nufos 4E** in combination with the burndown herbicide for control of common stalk borer.

Nufos 4E may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar insects. For best results, use the recommended rate of **Nufos 4E** in a tank mix with 2 pints per acre of non-emulsifiable oil. Maintain vigorous tank agitation to assure uniformity of the **Nufos 4E** plus oil mixture throughout the injection period. **Nufos 4E** may also be applied through sprinkler irrigation systems at the rate of 2 to 3 pints per acre to control *Corn Rootworm Larvae*. Time application to coincide with the appearance of the second instar larvae. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. Apply with enough water to wet the root zone to the depth control is needed. Under saturated soil conditions, allow enough soil drying to occur so that an application using a minimum water rate will not produce runoff. Consult university extension personnel or other experienced consultants to



determine the need to treat and to aid in application timing. See "Sprinkler Irrigation" section for further information.

Restrictions

Do not apply within 35 days before harvest of grain. Do not apply more than a total of 15 pints of **Nufos 4E** (or 7.5 lbs. active ingredient) per acre per season. Do not allow livestock to graze in treated areas nor harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment. Do not feed treated corn fodder to meat or dairy animals within 35 days after last treatment.

SWEET CORN GROWN ONLY IN FLORIDA AND GEORGIA

Use **Nufos 4E** to control infestations of **Beet Armyworm, Fall Armyworm and Corn Earworm** by application as a broadcast, foliar spray at the rate of 1 to 2 pints per acre. Use the specified dosage in enough water to ensure thorough coverage and apply using suitable aerial or ground spray equipment. For aerial application, use at least 2 gallons of spray per acre. Treat when field counts indicate damaging pest populations are developing or present. Re-treat as necessary to maintain control but do not apply more than twenty-two 1-pint or eleven 2-pint treatments per season.

Nufos 4E may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar insects. For best results, use the recommended rate of **Nufos 4E** in a tank mix with 2 pints per acre of non-emulsifiable oil. Maintain vigorous tank agitation to assure uniformity of the **Nufos 4E** plus oil mixture throughout the injection period. See "Sprinkler Irrigation" section for further information.

Restrictions

Do not apply more than 22 pints of **Nufos 4E** (or 11 lbs. active ingredient) per acre per season. Do not harvest corn ears, allow livestock to graze in treated areas, nor feed treated silage, fodder, or grain to meat or dairy animals within 21 days after treatment. Do not use in conjunction with postplant broadcast, foliar applications of **Nufos 15G**.

COTTON

Use **Nufos 4E** for control of the following pests in all states except Arizona and California at the dosages indicated:

PESTS	Nufos 4E
Cotton Fleahopper Plant Bugs (Lygus, Mirids)	3/8-1 pint/acre
Fall Armyworm Grasshoppers Thrips Yellow-striped Armyworm	1/2-1 pint/acre
Cotton Aphid	1/2-2 pints/acre
Spider Mites	1 pint/acre
Beet Armyworm Cotton Bollworm Tobacco Budworm Cutworm Pink Bollworm Salt Marsh Caterpillar	1 1/2-2 pints/acre

Note: The recommended dosage rate of 3/8 pint per acre will not achieve the high degree of control of the higher label rate, but will minimize the damage done by **Plant Bugs** and **Cotton Fleahopper** and allow the beneficial insects to survive, build up, and be available to aid in the control of **Bollworms** infesting cotton. Use a higher dosage within the indicated rate range.

Use **Nufos 4E** for control of the following pests in Arizona and California at the dosages indicated:

PESTS	Nufos 4E
Amyworms Cotton Aphid Cotton Fleahopper Lygus Salt Marsh Caterpillar Thrips	1-2 pint/acre
Cotton Bollworm Tobacco Budworm Boll Weevil Cutworms Pink Bollworm	2 pints/acre

Note: The 2 pint rate will aid in the suppression of **Cotton Leaf Per** and **S. per Mites**.

Mix the required dosage with sufficient water to ensure thorough coverage of plants and apply using aerial or power operated ground spray equipment. For aerial application, use at least 1 gallon of spray per acre. Treat when field counts indicate damaging insect populations are developing or present. Re-treat as necessary to maintain control.

Nufos 4E may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of **Nufos 4E** per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

For effective control of **Spider Mites** when large numbers of eggs are present, apply a second spray 3 to 5 days after initial treatment to control newly hatched nymphs.

For best results on **Bollworms** and **Budworms**, it is suggested that fields be scouted twice per week and treatments made when worms are 1/4 inch or less in length. The following table illustrates the size of worms in relation to age and stage of development (instar) as a guide to timing of treatments for best control.

From the table it can be seen that a scouting schedule of only once per week will not be satisfactory since the worms may be too big to control effectively by the seventh or eighth day.

	Age (days)	Size	Instar
Get the worms at this stage	Hatch	1/16"	Hatch
	3	3/32"	I
	5	9/32"	II
	7	7/16"	III
	9	11/16"	IV

Proper application techniques help to ensure thorough spray coverage and correct dosage and are thus important in obtaining good control of pests. Consider these suggestions when applying **Nufos 4E** on cotton.

Aerial Application

Shorten boom length to avoid spray entering the vortices at the wing tips. Swath width should be reduced when wind direction is the same as direction of spraying.

The proper nozzle arrangement and swath width to avoid skips and vortices effect can be checked out by flying over a paper tape (adding machine paper) using water with or without soluble dye. (The dye gives a permanent record.)

Flying at a height of 5 to 15 feet above the target results in the best coverage.

Nozzle orientation of the boom is important. More break up occurs when nozzles are pointed straight down versus the straight back position. Desired droplet size (100 to 200 microns) can be obtained by angling the nozzles somewhere in this range.

Marking of swath by flagging or permanent markers is essential.

Ground Application

Orient the boom and nozzles so that uniform coverage is obtained. The swath width should not be wider than the boom; drift spray is wasted spray so do not depend on it. Use flat fan or disc-core hollow cone nozzles with maximum spacing of 20 inches and a spray pressure of 40-60 psi with a droplet size of 100-200 microns.

Restrictions

Do not apply within 14 days before harvest or make more than 6 applications per season. Do not allow livestock to graze in treated areas. Do not feed gin trash or treated forage to livestock.

FIGS

Use **Nufos 4E** at the rate of 2 quarts per acre for control of **Dried Fruit Beetle** by application in sufficient water to the soil surface followed by incorporation into the top 3 inches of soil. Apply to fig orchard soil as a dormant application in late winter prior to beetle emergence and prior to leaf formation.

Restrictions

Make only one application per year. Do not apply within 7 months of harvest. Based on available residue data, use of **Nufos 4E** on figs is restricted to California.

GRAPES

Use **Nufos 4E** for control of **Grape Root Borer** by application just before the pest emerges from the soil. Mix 4 1/2 pints of **Nufos 4E** with 100 gallons of water and apply 2 quarts of the diluted spray mixture to the soil surface on a 15 square foot area around the base of each vine. Do not allow spray to contact fruit or foliage.

Restrictions

Do not make more than one application per season or apply within 35 days before harvest. Based upon available residue data, the use of *Nufos 4E* in grapes is restricted to states east of the Rocky Mountains.

MINT

Use *Nufos 4E* by application as a broadcast, foliar spray to control *Cutworms* at the rate of 2 to 4 pints per acre and *Mint Root Borer* at the rate of 4 pints per acre. Mix the specified dosage in water to give no less than 10 gallons of spray per acre and apply using ground spray equipment. For *Cutworm* control, treat during May and June when field counts indicate damaging insect populations are developing or present. When larvae are less than 3/4 inch in length, use the 2 pint rate. When larvae are 3/4 inch or more in length, use the higher rate. Make only one application during the growing season. Do not apply within 90 days before harvest. For *Mint Root Borer* control, apply post harvest when field counts indicate damaging insect populations are developing or present. Follow treatment with approximately 1 acre inch of sprinkler irrigation immediately after application to incorporate the insecticide into the soil. Make only one post-harvest application per season.

Nufos 4E may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed pests. For best results, use the recommended rate of *Nufos 4E* per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

NECTARINES, PEACHES

Use *Nufos 4E* for the control of *Peach Tree Borers* by application as a trunk spray before newly hatched borers enter the trees. Mix 3 quarts of *Nufos 4E* with 100 gallons of water and apply as a coarse, low pressure spray to give uniform coverage of tree trunks. Thoroughly wet all bark areas from ground level to scaffold limbs. Do not allow spray to contact fruit. Consult your state agricultural experiment station's or extension service specialist's written recommendations for proper time to treat in your area.

Nufos 4E may also be used as a preplant dip application for nonbearing peach trees at the equivalent application rate of 3 quarts per 100 gallons of water for control of *Peach Tree Borer*. Dip trees several inches above the grafting bud scar and plant immediately or allow to dry before returning to storage. Do not allow peach trees to remain in contact with the dip solution.

Restrictions

Make only one application per season. Do not apply within 14 days before harvest. Do not allow meat or dairy animals to graze in treated orchards.

ONIONS (DRY BULB)

Use *Nufos 4E* to control *Onion Maggot* by application as an in-furrow drench. Apply *Nufos 4E* at the rate of 1.1 fluid ounce per 1000 linear feet of row at an 18-inch row spacing. Use a minimum of 40 gallons of total drench per acre. Incorporate to a depth of 1 to 2 inches.

Restrictions

Do not make more than one application per year.

PEANUTS

For suppression of *Wireworms*, apply *Nufos 4E* at a rate of 4 pints per acre as a preplant broadcast spray to the soil surface followed by immediate soil incorporation to a depth of 3 to 4 inches. Use a minimum of 10 gallons of total spray per acre.

Restrictions

The combined total of preplant and postplant applications of *Nufos 4E* and *Nufos 15G* or *Lorsban 15G* must not exceed 4 pounds active ingredient per acre per season. Do not make more than one application per season. Do not harvest within 21 days after treatment with *Nufos 4E*. Do not feed peanut forage or hay to meat or dairy animals.

SORGHUM, GRAIN SORGHUM (MILO)

Use *Nufos 4E* insecticide for control of the following pests at the dosages indicated:

Mix the specified dosage in enough water to ensure thorough coverage and apply using suitable aerial or ground spray equipment. To minimize chemical injury, do not apply *Nufos 4E* to drought stressed grain sorghum within 3 days following irrigation or rain, except where the product is applied in irrigation water.

Nufos 4E may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of *Nufos 4E* per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

Pests	<i>Nufos 4E</i>	Specific Directions
<i>Sorghum Midge</i>	1/2 pint/acre	Apply when 30 to 50% of the seed heads are in bloom, repeat at 3-day intervals if necessary.
<i>Grasshoppers</i> <i>Yellow Sugar Cane</i> <i>Aphid and other</i> <i>Aphids</i>	1/2-1 pint/acre	
<i>Greenbugs</i>	1/2-2 pints/acre	For infestations of <i>Greenbug</i> that are difficult to control, use a higher dosage within the indicated rate range.
<i>Chinch Bug</i> <i>Lesser Cornstalk</i> <i>Borer</i>	1-2 pints/acre	Apply as a directed spray towards the base of the plant using power-operated ground spray equipment with sufficient water to ensure coverage of an 8 to 12 inch band centered on the row. On plants less than 6 inches high, apply an 8 to 12 inch band over the row. Do not reduce the dosage for banded or directed applications. Concentrate the full labeled dosage rate in the treated zone.
<i>Webworms</i>	1 pint/acre	
<i>Armyworms</i> <i>Cutworms</i>	1-2 pints/acre	
<i>European and</i> <i>Southwestern Corn</i> <i>Borer</i>	1 1/2-2 pints/acre	
<i>Corn Earworm</i>	2 pints/acre	

Precaution

Be aware that sorghum lines used in seed production fields may be more sensitive to chemical injury. Susceptible inbred lines or hybrids are likely to be at greater risk of yield-reducing chemical injury when sprayed at the higher rates of application. Do not apply more than 1 pint per acre of *Nufos 4E* to seed sorghum if the additional risk of crop injury is unacceptable.

Restrictions

The treated crop is not to be used for grain, forage, fodder, hay, or silage within 30 days after application of 1 pint of *Nufos 4E* per acre or within 60 days after application of rates above 1 pint per acre. Do not treat sweet varieties of sorghum. Do not apply more than 3 pints of *Nufos 4E* for 1.5 lbs. active ingredient per acre per season.

* 5

SOYBEANS

For use to control *Armyworms*, *Bean Leaf Beetle*, *Corn Earworm*, *Cutworms*, *European Corn Borer*, *Grasshoppers*, *Green Cloverworm*, *Lesser Cornstalk Borer*, *Mexican Bean Beetle*, *Saltmarsh Caterpillar* and other *Woollybears*, *Southern Green Stink Bug*, *Spider Mites*, and *Velvetbean Caterpillar*.

Soil Treatment

Use *Nufos 4E* at the rate of 1 to 2 pints per acre to control *Cutworms* and *Lesser Cornstalk Borer*. Mix the specified dosage in a minimum of 10 gallons of spray per acre and apply to the soil surface using suitable ground spray equipment. Equivalent rates of insecticide spray required per 100 feet of row for various row spacing are given in the accompanying table. For at-plant treatments apply the insecticide over the row in a 4 to 6 inch band in front of the planter shoe or press wheel or after the press wheel followed by a drag chain for incorporation. Do not apply as an in-furrow treatment. For postemergence rescue treatments apply as a directed spray in a 9 to 12-inch band at the base of the plant. To plants under 6 inches high apply over the top in a 6- to 12-inch band. Treat when field counts or conditions indicate that pests are or may become a problem.

Volume of Spray Per Acre	Fluid Ounces of Spray Required Per 100 Feet of Row for Various Row Spacing			
	36"	32"	28"	24"
10 gallons	8.8	7.9	6.9	5.9
15 gallons	13.2	11.8	10.3	8.8
20 gallons	17.6	15.7	13.7	11.8

Foliar Treatment -

Use **Nufos 4E** at the following rate by application in sufficient water to ensure thorough coverage of treated plants:

PESTS	Nufos 4E
European Corn Borer Southern Green Stink Bug	2 pints/acre
Bean Leaf Beetle Cutworms Corn Earworm Saltmarsh Caterpillar and other Woollybears	1-2 pints/acre
Mexican Bean Beetle Armyworms	1-1 1/2 pints/acre
Velvetbean Caterpillar Grasshoppers Green Cloverworm Spider Mites	1/2-1 pint/acre

Apply as a broadcast spray using either aerial or ground equipment when field counts indicate damaging insect populations are developing or present; re-treat as necessary to maintain control. For effective control of **Spider Mites** when large numbers of eggs are present, apply a second spray 3 to 5 days after initial treatment to control newly hatched nymphs. On determinate soybeans do not apply more than one application after pod set.

Nufos 4E may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of **Nufos 4E** per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" section for further information.

Restrictions

Do not apply more than 6 pints of **Nufos 4E** per acre or 3 pounds of chlorpyrifos (active ingredient) per acre per season. Do not apply last treatment within 28 days before harvest nor apply last two treatments closer than 14 days apart. Do not allow livestock to graze in treated areas or otherwise feed treated soybean forage, hay, and straw to meat or dairy animals.

STRAWBERRIES

Use **Nufos 4E** by application as a broadcast foliar spray to control **Strawberry Bud Weevil** at the rate of 1 quart per acre. Apply in a minimum of 40 gallons of spray per acre when buds first appear and 10 to 14 days later. Do not apply after berries start to form or when berries are present. **Nufos 4E** should not be tank mixed with pesticides, surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under your current conditions of use.

Phytotoxicity may occur when **Nufos 4E** is applied to strawberries experiencing high temperature and drought stress.

Restrictions

For pre-bloom use only. Do not make more than two applications per season or apply within 21 days before harvest.

SUNFLOWERS

For use to control **Cutworms, Sunflower Beetle Larvae and Adults, Stem Weevil, Sunflower Moth, Banded Sunflower Moth, Woollybears, Seed Weevil, and Grasshoppers.**

Preplant Incorporation Treatment

Use **Nufos 4E** at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

PESTS	Nufos 4E
Cutworms	2-4 pints/acre

Use recommended rate in not less than 10 gallons of water per acre and apply as a broadcast spray to the soil surface using suitable power-operated ground spray equipment. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil using a disc field cultivator or equivalent equipment.

Postemergence Treatment

Use **Nufos 4E** for control of the following pests at the dosage indicated by application in sufficient water to ensure thorough coverage of treated plants:

PESTS	Nufos 4E
Cutworms	2-3 pints/acre
Sunflower Beetle Larvae and Adults Stem Weevil Sunflower Moth Banded Sunflower Moth Woollybears Seed Weevil	1-1 1/2 pints/acre
Grasshoppers	1 pint/acre

Apply as a broadcast spray using either aerial (fixed wing or helicopter) or power-operated ground spray equipment when field counts indicate that pests are or may become a problem. For **Cutworm** control, a second treatment may be made 7 to 10 days later, if needed. For **Stem Weevil** control, optimal treatment time is within 5 to 7 days after adult weevils begin to appear. For **Sunflower Moth** control, make first application during early 1 to 5 percent bloom stage. A second treatment may be made 7 days later, if needed. For **Seed Weevil** control, treat when field counts indicate there are 10 to 12 adults per plant for oil crops and 1 to 3 adults per plant on confectionary crops. Additional treatments should be made at successive 7 to 10 day intervals if field counts indicate need to re-treat. For **Sunflower Beetle Larvae or Adult** control, treat when field counts indicate there are 10 larvae or 1 to 2 adults per seedling. Additional treatments may be made at successive 7 to 10 day intervals if field counts indicate need to re-treat.

Restrictions

Do not apply more than 9 pints of **Nufos 4E** or 4.5 lbs. active ingredient per acre per season. Do not apply within 42 days before harvest. Do not allow livestock to graze in treated areas.

SUGAR BEETS

Soil Treatment (at Planting or Preplant Incorporated)

To reduce feeding damage from early season insects such as **Cutworms**, use **Nufos 4E** at planting or as a preplant treatment and incorporate to a depth of 1 to 2 inches. Do not apply as an in-furrow treatment. Apply 1 pint of **Nufos 4E** per planted acre to a 10-inch wide band centered on the row for furrows 30 inches apart. (For rows 30 inches apart, this is equivalent to 9.2 fluid ounces of **Nufos 4E** per 10,000 feet of row.) For other row widths, adjust the spray volume per planted acre in proportion to the area actually treated.

Postemergence Treatment

Use **Nufos 4E** by application as a broadcast, foliar spray. Treat when field counts indicate that damaging insect populations are or may be a problem. Retreat as necessary to maintain control of target pests.

Broadcast application: Apply the specified dosage in a total spray volume of 2 to 5 gallons of water per acre using suitable aerial spray equipment or 10 to 30 gallons of water per acre when using power-operated ground equipment.

PESTS	Nufos 4E
Grasshoppers ¹	1/2-1 pint/acre
Sugar Beet Root Maggot Adults (present at time of applications)	1 pint/acre
Beet Armyworms	1 1/2 to 2 pints/acre
Cutworms	2 pints/acre

¹ The lower rate will control young nymphs.

Band application to control Sugar Beet Root Maggot: Apply 2 pints of **Nufos 4E** per acre on a broadcast basis, e.g., 2/3 pints/acre in a 7.5-inch band based on a 22-inch row spacing. For rows 22 inches apart, this is equivalent to 13.5 fluid ounces of **Nufos 4E** per 10,000 feet of row. For band application, do not apply less than 20 gallons of water per acre on a broadcast basis.

Restrictions

Do not apply within 30 days of harvest of beet roots and tops. Do not apply more than a total of 8 pints of **Nufos 4E** or 4 lbs. active ingredient on a broadcast basis, or make more than four applications per season. Do not allow livestock to graze in treated areas or harvest treated beet tops as feed for meat or dairy animals within 30 days of last treatment.

SWEET POTATOES

Use **Nufos 4E** to reduce the feeding damage caused by populations of **Conoderus Wireworm, Systema Flea Beetle and the Sweet Potato Flea Beetle.** Apply at the rate of 4 pints

9/12



per acre as a broadcast (overall) spray to the soil surface followed by incorporation. Mix the specified dosage with enough water to obtain uniform coverage and apply as a coarse spray using suitable ground spray equipment. Incorporate the insecticide to a depth of 4 to 6 inches as soon as possible after application by using a rotary hoe, disc cultivator, or other suitable incorporation equipment. Plant the crop in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time that *Nufos 4E* will protect against feeding damage). *Nufos 4E* will not control false wireworms or white fringe beetle or other grubs that attack sweet potatoes.

Restrictions

Do not make more than one application per season. Do not harvest within 125 days of treatment.

TOBACCO

Use *Nufos 4E* for preplant treatment to control larvae of *Cutworms*, *Flea Beetles*, *Mole Crickets*, *Root Maggots*, and *Wireworms*. Apply 2 to 3 quarts of *Nufos 4E* per acre in not less than 10 gallons of water as a broadcast (overall) spray to the soil surface 24-48 hours before bedding and transplanting. Immediately following application, incorporate the insecticide into the soil to a depth of 2 to 4 inches using suitable equipment. The application of *Nufos 4E* will also suppress the movement of *Imported Fire Ants* into treated fields.

To control the above insects and low to moderate populations of *Rootknot Nematodes* in North Carolina, South Carolina, and Virginia, use *Nufos 4E* at the rate of 5 quarts per acre. To control the above insects and moderate populations of *Rootknot Nematodes* in all tobacco growing regions, use *Nufos 4E* in a tank mix with Nematicur³ at the rate of 2 quarts of *Nufos 4E* plus 4 quarts of Nematicur³ per acre.

Read and carefully follow all applicable directions, restrictions, and precautions on labeling for Nematicur³ nematocide used in combination with *Nufos 4E*. Apply the specified dosage in not less than 10 gallons of water as a broadcast (overall) spray to the soil surface 24 to 48 hours before bedding and transplanting. Immediately following application, incorporate into the soil to a depth of at least 4 inches using suitable equipment. Where the nematode species *Meloidogyne arenaria* or *M. javanica* are present or high populations of *M. incognita*, apply Telone[®] soil fumigant at the recommended label rate.

Before broadcast application of *Nufos 4E* onto existing beds, knock down beds to final shape for transplanting. Use of PTO driven implements that will incorporate *Nufos 4E* to a depth of 4 inches is recommended.

Restrictions

Do not make more than one application per season.

TREE FRUITS

Use *Nufos 4E* as a dormant or delayed dormant spray at the rates indicated to control the following insects on the crops listed. While *Nufos 4E* may be used without oil, oil is recommended to control additional pests such as *European Red Mite*.

Crop	Insect	<i>Nufos 4E</i> per 100 gallons of Spray*
Apples	<i>Rosy Apple Aphid</i> <i>San Jose Scale</i> <i>Lygus</i> <i>Pandemis Leafroller</i> <i>Climbing Cutworms</i> <i>Oblique Banded Leafroller</i>	1/2-1 pint (Use a minimum of 1.5 pints/acre)
Pears	<i>San Jose Scale</i> <i>Climbing Cutworms</i> <i>Pear Psylla Adults</i>	
Plums, Prunes	<i>San Jose Scale</i> <i>Mealy Plum Aphid</i> <i>Climbing Cutworms</i> <i>Peach Twig Borer</i>	
Almonds, Peaches, Nectarines	<i>San Jose Scale</i> <i>Peach Twig Borer</i> <i>Climbing Cutworms</i>	

* Based on 200 to 500 gallons per acre as a dilute spray.

For dilute sprays, tank mix the specified dosage with 1 to 2 gallons of a petroleum spray oil recommended for dormant use in 100 gallons of water and spray the entire tree by application to runoff using suitable ground spray equipment. (See "Additional Precautions Specific to California" (below) for use in California).

For low volume (concentrate) sprays, less than 200 gallons of spray mixture per acre, use the same amount of *Nufos 4E* as for a dilute spray and apply in a manner that will ensure thorough coverage of the trees. Use the higher dosage of *Nufos 4E* for severe infestations. Use oil as recommended by your state agricultural experiment station or extension service specialist.

Precautions

Because cold or dry conditions may cause *Nufos 4E* plus oil sprays to infuse trees resulting in bud damage or drop, do not apply until winter rains or irrigation has replenished soil moisture such that bark and twigs are not desiccated. Do not use more than 4 pints of *Nufos 4E* per acre.

Additional Precautions Specific to California: Use a minimum of 250 gallons of total spray volume per acre. Do not use more than 4 gallons of spray oil per acre on almonds, peaches, or nectarines. Do not use any adjuvants or surfactants in addition to or as a substitute for a petroleum spray oil in a tank mix with *Nufos 4E*. Do not apply on almonds in the following counties in California: Butte, Colusa, Glenn, Solano, Sutter, Tehama, Yolo, and Yuba.

Restrictions

Make only one application during the dormant season. Do not allow meat or dairy animals to graze in treated orchards.

TREE NUTS

Use *Nufos 4E* at the dosages indicated by application as a foliar spray to control pests listed in the following table. Mix the required dosage in sufficient water to ensure thorough and complete coverage of the foliage and crop and apply as a concentrate or dilute spray using conventional, power-operated spray equipment. For dilute sprays applied to tree nut crops, mix the required dosage in sufficient water to allow for spray to runoff. For concentrate sprays, apply an equivalent amount of *Nufos 4E* per acre. Treat when pests appear or in accordance with local conditions. Insect control by aerial application may be less than control by ground application because of less coverage. Consult your state agricultural experiment station, certified pest control advisor, or extension service specialist for specific use information in your area.

ALMONDS, FILBERTS, WALNUTS

Use *Nufos 4E* at the rates indicated to control the listed pests.

Crop	Insects Controlled	Dosage <i>Nufos 4E</i>	Restrictions
Almonds	<i>Navel Orangeworm</i> <i>Peach Twig Borer</i> <i>San Jose Scale</i>	4 pints/acre	Make no more than 3 foliar applications per season on almonds and filberts and no more than 2 applications per season on walnuts. Do not apply within 14 days of harvest. Do not allow livestock to graze in treated orchards.
Filberts	<i>Eye-spotted Bud Moth</i> <i>Filbert Aphid</i> <i>Filbert Leafroller</i> <i>Filbert Worm</i> <i>Oblique-banded Leafroller</i> <i>Omnivorous Leaf Tier</i> <i>Winter Moth</i>	3-4 pints/acre	
Walnuts	<i>Codling Moth</i> <i>Walnut Scale</i>	4 pints/acre	

PECANS

Insects Controlled	Dosage of <i>Nufos 4E</i> (Dilute or Concentrate) Pints/Acre	Remarks and Restrictions
<i>Pecan Nut Casebearer</i> <i>Fall Webworm</i>	1 1/2-4	Make no more than five applications per year. Do not apply within 28 days of harvest. Do not allow livestock to graze in treated orchards. Make no applications of tank mixtures closer to harvest than the longest pre-harvest interval shown for any of the products in the tank mixture.
<i>Phylloxera spp.</i> ¹ <i>Black Pecan Aphid</i> <i>Hickory Shuckworm</i> ² <i>Pecan Leaf Scorch Mite</i> (suppression) ³ <i>Fire Ants</i> and other ant species ⁴	2-4	
<i>Yellow Pecan Aphid</i> <i>Black Margined Aphid</i>	1-4 pints of <i>Nufos 4E</i> plus: 1.70 fl. oz. of Asana [®] 1.9EC, or 3.00 fl. oz. of Ammo [®] 2.5EC, or 2.56 fl. oz. of Cymbush [®] 3E	For dilute applications with ground equipment use at least the minimum rate of <i>Nufos 4E</i> listed for the pest. Apply in 100-500 gallons of water per acre. For aerial applications use 5-15 gallons of water per acre. Note: With aerial application, control may be reduced due to poor coverage. Up to 10 pints of <i>Nufos 4E</i> for 100's plus, ingredient may be applied per acre per year.

* 8

Use **Nufos™ 4E** at the rates indicated to control the listed pests.

¹ For best *Phylloxera* spp. control, make 2 applications at a 7 to 10 day interval using a minimum of 1.0 pint of **Nufos 4E** per acre starting at bud swell.

² For best results make 2 applications, 10 to 14 days apart.

³ To suppress *Pecan Leaf Scorch Mite*, use a preventative program.

⁴ For *Ant* control, apply as an orchard floor spray. Do not apply where weed growth or other obstructions prevent uniform coverage of the orchard floor.

ALMOND ORCHARD FLOORS

Use **Nufos™ 4E** to control *Southern Fire Ant* and *Pavement Ant* by applying the specified dose with ground application equipment that will uniformly apply the spray to the orchard floor. Use when ant activity becomes evident within the orchard. Since worker ants cease most of their foraging activity at temperatures above 90°F, best results will be achieved with applications made at temperatures below 90°F at the time of application. Dosage of **Nufos 4E** and spray volume may vary depending on the irrigation method employed in the orchard as follows:

Ant Control in Sprinkler or Drip-Irrigated Orchards

Apply **Nufos 4E** as a broadcast spray to the entire orchard floor using ground spray equipment at 4 to 8 pints per acre in 25 or more gallons of water. Use the high rate for heavy infestations and the low rate for light infestations. In orchards where ant activity is concentrated around the irrigation emitters, apply the high rate to a 6 to 8 foot band along the drip irrigation line and the low rate to the rest of the orchard.

Ant Control in Flood-Irrigated Orchards

Apply **Nufos 4E** at 4 to 8 pints per acre in 25 or more gallons of water to the entire orchard floor using ground spray equipment. Apply the high rate to heavily infested areas and the low rate to lightly infested areas. Where ant colonies are abundant only in the berm areas, apply **Nufos 4E** at 8 pints per treated acre in 50 or more gallons of water to a 6 to 10 foot band along the tree line (berm).

Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Mow or chemically control weeds before the application of **Nufos 4E**. Foliar applications of **Nufos 4E** may be made in addition to the orchard floor treatment.

Restrictions

Do not apply more than 16 pints of **Nufos 4E** or 8 lbs. active ingredient per year to the orchard floor. Do not apply the last treatment within 14 days of harvest. Do not allow livestock to graze in treated orchards.

VEGETABLES

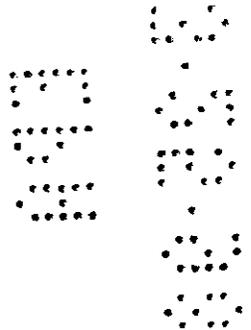
Use **Nufos™ 4E** at the dosages indicated to control the pests listed in the following table. To avoid phytotoxicity in vegetables, except Brussels sprouts, do not mix with other pesticide

Crop	Insects Controlled	Dosage of Nufos 4E	Use Directions	Restrictions
Cauliflower	Root Maggot	1.6-2.4 fl. oz./1000 linear ft. of row	For direct seeded crops apply the specified dosage in a water-based spray as a 4-inch wide band over the row at planting time. Shallow incorporation is necessary. Placement behind the planter shoe and in front of the press wheel is recommended.	Do not apply more than 2 pints of Nufos 4E to cauliflower planted in 40 inch rows. Use proportional amounts for other rows spacings not to exceed 4 pints of Nufos 4E per acre.
Broccoli Brussels sprouts Cabbage Chinese cabbage Collards Kale Kohlrabi Turnips	Root Maggot	1.6-2.75 fl. oz./1000 linear ft. of row	For transplanted crops, apply Nufos 4E as a water-based spray directed to the base of the plants immediately after setting. Use a minimum of 40 gallons of total spray per acre. Do not add any additional adjuvants, surfactants or spreader stickers. Do not apply as a foliage application.	Do not apply more than 2.6 pints of Nufos 4E per acre to broccoli, brussels sprouts, cabbage, Chinese cabbage, collards, kale, kohlrabi, and turnips planted in 40-inch rows. Do not apply more than 4 1/2 pints of Nufos 4E per acre to these crops in 20-inch rows or two rows per bed. Use proportional amounts for other row spacings not to exceed 4 1/2 pints of Nufos 4E per acre.
Broccoli Cabbage	Root Aphid	1.2 fl. oz./1000 linear ft. of row for single row plantings, and 2.4 fl. oz./1000 linear ft. of row for double row plantings.	Apply Nufos 4E in a water emulsion or with liquid fertilizer injected as a sidedress on each side of the row after plants are established. Avoid mechanical damage to crop roots. Use a minimum of 15 gallons of total spray volume per acre.	Do not make more than one application per season or apply within 30 days before harvest.
Brussels Sprouts	Armyworms Cabbage Aphid Cutworms Imported Cabbageworm Striped Flea Beetle (Adult)	1 to 2 pints per acre	Apply NUFOS 4E with conventional power-operated spray equipment in 20 to 150 gallons of water per acre. Apply when insects appear on foliage and at 7 to 14 day intervals thereafter as needed. Consult your State Agricultural Experiment Station, extension service specialist, or Integrated Pest Control Advisor for proper time to treat in your area.	Do not make more than 6 applications per season. Do not apply within 7 days before harvest.
Radishes	Root Maggot	1.0 fl. oz./1000 linear ft. of row	Apply the specified dosage as a water-based drench in the seed furrows with the seed at planting time. Use a minimum of 40 gallons of total drench per acre.	Do not apply more than 5 1/2 pints of Nufos 4E or 2.75 lbs. active ingredient per acre or make more than one application per season.
Rutabagas	Root Maggot	1.6-3.3 fl. oz./1000 linear ft. of row	Apply the specified dosage in a water-based spray as a 4-inch wide band over the row at planting time, behind the planter shoe and in front of the press wheel to achieve shallow incorporation. Use a minimum of 40 gallons of total spray volume per acre.	Do not apply more than 4 1/2 pints of Nufos 4E or 2.25 lbs. active ingredient per acre or make more than one application per season. Do not use rutabagas for food or feed purposes.

9

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11



products or treat plants that are under extreme heat and drought stress.

WARRANTY DISCLAIMER

Cheminova warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. CHEMINOVA MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Cheminova or the seller. All such risks shall be assumed by Buyer.

LIMITATION OF REMEDIES

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Cheminova's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

Cheminova shall not be liable for losses or damages resulting from handling or use of this product unless Cheminova is promptly notified of such loss or damage in writing. In no case shall Cheminova be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Cheminova or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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Ammo	FMC
Agri-Mek	Merek
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