

1/2/97

PM 19

67760-14

pg 1/15

Please read instructions on reverse before completing form.

Form Approved - OMB No. 2070-0080. Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

☐ Registration
☐ Amendment
☒ Other

OPP Identifier Number

247313

Application for Pesticide - Section I

| | | |
|--|---|--|
| 1. Company/Product Number 67760-14 | 2. EPA Product Manager D. Edwards | 3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name) Chlorpyrifos 15G | PM# 19 | |
| 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 JAN 2 1997 |
| <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 page(s) if necessary. (For section I and Section II.) Notification of Alternate Brand Name and Addition of Pests, as per PR Notice 95-2. This notification is consistent with the provisions of PR Notice 95-2 and EPA Regulations at 40 CFR 152.46, and no other changes have been made to the Labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

| | | | | | |
|---|---|--|--|---|-------------------|
| 1. Material This Product Will Be Packaged In: | | | | 2. Type of Container | |
| Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No | Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No | Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____ | | |
| * Certification must be submitted | | If "Yes" Unit Packaging wgt. | No. per container | If "Yes" Package wgt. | No. per container |
| 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) (201) 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 Manager of Regulatory Affairs | | |
| 4. Typed Name P. Leanne Pruett | 5. Date December 10, 1996 | | |

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NUFOS 15G

For control of various insects infesting certain field and vegetable crops.

| | | |
|---|--|---------------|
| Active Ingredients: | | |
| Chlorpyrifos: O, O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorodithioate | | 15.0% |
| Inert ingredients | | 85.0% |
| Total | | 100.0% |

Keep Out of Reach of Children

NOTIFICATION
CAUTION PRECAUCION

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

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to label for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before buying or using the product, read "Warranty Disclaimer" and "Limitation of Remedies".

In case of a medical emergency, please call toll free, day or night, 1-800-228-5635, Ext. #153.

AGRICULTURAL CHEMICAL: Do not ship or store with food, feeds, drugs or clothing.
GRANULAR INSECTICIDE

EPA Reg. No. 67760 - 14

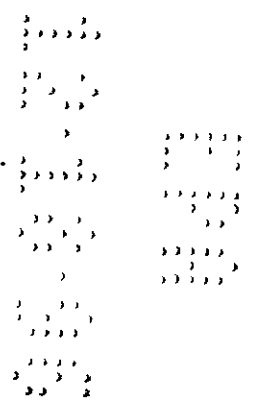
EPA Est. No. _____

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

Precautionary Statements

Hazards to Humans and Domestic Animals
CAUTION PRECAUCION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation.
Avoid contact with eyes, skin or clothing. Avoid breathing dusts.



Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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.

First Aid**Organophosphate**

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 In Eyes: Flush with plenty of water for 5 minutes. Get medical attention if irritation persists.

If On Skin: Wash with plenty of soap and water. Get medical attention.

Note to Physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (base line data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM / praloxime, may be therapeutic if used early, however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Environmental Hazards

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. 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 from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water when disposing of equipment washwaters.

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.

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 covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 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
- Shoes Plus Socks
- Waterproof Gloves

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

APPROVED USES

Corn, Field; Popcorn; Sweet Corn (Including corn grown for seed)★

APPLICATION RATES AND PESTS CONTROLLED

| Pests Controlled | Banded Applications (Ounces per 1000 feet of row) | | | | Preplant Broadcast | Aerial Broadcast |
|---|--|------|-----------|---------------------|-----------------------|-----------------------|
| | T-Band | Band | In-Furrow | Postplant Treatment | Application (lb/Acre) | Application (lb/Acre) |
| Northern, Western & Southern Corn Rootworm Larvae | 8 | 8 | 8 | 8 | - | - |

| Pests Controlled | Banded Applications (Ounces per 1000 feet of row) | | | | Preplant Broadcast | Aerial Broadcast |
|---|--|---------|-----------|---------------------|-----------------------|-----------------------|
| | T-Band | Band | In-Furrow | Postplant Treatment | Application (lb/Acre) | Application (lb/Acre) |
| Cutworms ★★ | 8 | 8 | 8 to 16 | - | 6.75 to 13.5 | - |
| Wireworms ★★ ★ | 8 to 16 | 16 | 8 to 16 | - | 13.5 | - |
| Billbugs | 8 to 16 | 8 to 16 | - | - | 13.5 | - |
| Seed Corn Maggots | 8 | - | 8 | - | - | - |
| Grubs | 16 | - | 8 to 16 | - | 13.5 | - |
| Lesser Cornstalk Borer | 8 to 16 | 8 to 16 | - | - | - | - |
| Seed Corn Beetle | 8 to 16 | - | 8 to 16 | - | - | - |
| Flea Beetle Larvae | - | - | - | - | 13.5 | - |
| Symphylans | 8 to 12 | 8 to 12 | - | - | - | - |
| Armyworms | - | - | - | 6 to 8 | - | - |
| European and Southwestern Corn Borer: - First Generation | - | - | - | 3.5 to 8 | - | 5.0 to 6.5 |
| - Second Generation | - | - | - | 6 to 8 | - | 6.5 |
| Fire Ants | 8 | - | - | - | - | - |
| Chinch Bugs ★★ | 8 | - | 8 | - | - | - |
| Nematodes (NC, SC, VA) | - | 16 | - | - | - | - |
| Southeast | 16 | - | - | - | - | - |
| (Note - See below for details) | | | | | | |

★ **NUFOS 15G** insecticide is compatible with Accent and Beacon herbicides applied in accordance with label recommendations. Refer to the product labels for Accent and Beacon for additional precautions and directions for use.

★★ 8 oz. rate-suppression only for in-furrow treatments.

★★★ 8 oz. rate-suppression only unless used with a hopper box insecticidal seed treatment

At Plant Band Treatment: In conventional, minimum and no-till corn, place the granules in a 6 or 7 inch wide band over the row behind the planter shoe, in front of the press wheel, and incorporate into the top one inch of soil using tines or chains or other suitable equipment. For Cutworm control under very dry soil conditions, best results will be obtained through proper incorporation. In soils over 10% organic matter, use the highest rate given. For suppression of Nematodes in North Carolina, South Carolina, and Virginia, apply **NUFOS 15G** insecticide as a 7 to 10 inch wide band at the rate of 16 oz. per 1000 feet of row. Incorporate with drag chains, tines, or other suitable equipment to a depth of 1 or 2 inches.

At Plant T Band Treatment: In conventional, minimum and no-till corn, for control of Rootworm, Cutworm, and Billbug, in addition to Lesser Cornstalk Borer, Symphylans, Wireworm, Seed Corn Beetle, Seed Corn Maggot and Grubs, apply as a T-band over an open seed furrow. In conventional and minimum-till corn, incorporate into the top 1/2 to 1 inch of soil using suitable equipment. For suppression of Nematodes in the Southeast, use **NUFOS 15G** as a T-band treatment at 16 oz. per 1000 feet of row over an open seed furrow. **NUFOS 15G** has demonstrated suppression of certain soil-borne pathogens which may result in certain physiological and agronomic advantages to corn under environmental stress conditions when compared to corn not treated with **NUFOS 15G**.

At Plant In-Furrow Treatment: Apply **NUFOS 15G** at planting time as an in-furrow treatment in conventional, minimum and no-till corn. Direct the granules into the planter shoe with the seed or place the applicator tube directly behind the planter shoe so that the granules drop into the seed furrow or place the granular band applicator behind the planter shoe so that the granules fall on the soil surface and into the open seed furrow and are covered with soil. Equivalent rates of **NUFOS 15G** per acre for various row spacings are given in the accompanying table.

Postplant Treatment: To control Corn Rootworm Larvae, apply **NUFOS 15G** at cultivation time by placing the granules at the base of the plant on both sides of the row just ahead of the cultivation shovels and cover the soil. To control European and Southwestern Corn Borer larvae, apply **NUFOS 15G** in a band over the row so that the granules are directed into the whorl or use a post plant broadcast treatment. Use application rates of 3.5 to 4 oz. of **NUFOS 15G** per 1000 feet of row for low to moderate first generation infestations before larvae have entered corn stalks. Use application rates of 6 to 8 oz. of **NUFOS 15G** per 1000 feet of row for severe first generation infestations and all second generation infestations before larvae have entered corn stalks. Consult your state agricultural experiment station or extension service specialist for proper time to treat and local threshold information. Scouting for insect damage is strongly encouraged.

Postplant Broadcast Treatment: Use **NUFOS 15G** for control of European and Southwestern Corn Borers by uniformly broadcasting the granules over the corn plants by aerial application or applying the granules into the corn whorls by ground application. Apply at a rate of 5.0 lb. per acre for low to moderate first generation infestations or at 6.5 lbs per acre for severe first generation infestations and all second generation infestations. Apply before larvae have entered corn stalks. Consult your state agricultural experiment station or extension service specialist for local threshold information. Scouting for insect damage is strongly encouraged.

Preplant Broadcast Treatment: Use equipment that will evenly distribute the granules over the treated area. Incorporate the granules into the soil using an S tine, C tine, disc cultivator, or other suitable incorporation equipment set to cut to a depth of 4 to 6 inches. Plant the crop in the usual manner as soon as possible after treatment.

RESTRICTIONS: For soil insect control, do not exceed the equivalent of 16 ounces of **NUFOS 15G** per 1000 feet of row or 13.5 pounds of **NUFOS 15 G** per acre per crop season. For foliar insect control, do not exceed the equivalent of 16 ounces of **NUFOS**

15G per 1000 feet of row or 13 pounds of **NUFOS 15G** per acre per crop season. Do not apply within 35 days before harvest of grain. 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.

CITRUS GROVE FLOORS

Pests Controlled: Fire Ants and other ant species
Application Rate 6.7 lb. / acre

Postplant Broadcast Treatment: To control foraging Ants and suppress mounds, apply **NUFOS 15G** with ground application equipment. Use a suitable granular applicator, such as a cyclone fertilizer spreader, that will uniformly broadcast the granules over the grove floor. Retreat as needed. **NUFOS 15G** may be custom blended with granular fertilizers provided that application of the blended **NUFOS 15G** plus fertilizer mixture can be applied uniformly to the grove floor. Do not apply where weed growth or other obstructions would impede uniform coverage of the grove floor.

RESTRICTIONS: Do not apply more than 67 pounds of **NUFOS 15G** per acre per crop season. Do not apply last treatment within 28 days before harvest. Do not allow livestock to graze in treated areas.

SORGHUM / MILO

Application rates and Pests Controlled

| | Banded Applications (Ounces per 1000 feet of row) | |
|----------------------------|--|-------------|
| | At Plant Treatments | |
| Pests Controlled | T-Band | Band |
| Lesser Cornstalk Borer | 4 to 12 | 4 to 12 |
| Corn Rootworm and Cutworms | 8 | 8 |
| Fire Ants★ | 8 | - |
| Chinch Bug★ | 8 | - |

★ 8 oz. rate - suppression only

At Plant or T-Band Treatments: Apply in a 6 to 8 inch band over the row and incorporate into the top 1-inch of soil using suitable equipment. Equivalent rates of **NUFOS 15G** per acre for various row spacings are given in Table 1. Use the lowest rate for Lesser Cornstalk Borer Control when protection is desired for 2 to 3 weeks and higher rates for longer residual activity. It is absolutely necessary to incorporate the granules, especially at lower rates.

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RESTRICTIONS: Do not make more than one application per season.

ONIONS (DRY BULB)

Pest Controlled: Onion Maggot

Application Rate: 3.7 ounces per 1000 feet of row at an 18-inch row spacing

At Plant In-Furrow Treatment: Apply as an at planting in-furrow treatment. In Colorado, Idaho, Washington and Oregon, to control Onion Maggots in onions planted in double rows with rows spaced 2 to 4 inches apart, apply **NUFOS 15G** at the rate of 3.7 oz. per 1000 feet of double row. Place the granules in a 5 to 7 inch wide band over both rows behind the planter shoe and in front of the press wheel to achieve shallow incorporation. Do not exceed 6.7 lb per acre.

RESTRICTIONS: Do not make more than one application per year.

PEANUTS

Use **NUFOS 15G** to control Cutworms, Lesser Cornstalk Borer, Southern Corn Rootworm Larvae; suppress Wireworms, and inhibit the growth and development of White Mold (Southern Blight) disease caused by *Sclerotium rolfsii*. **NUFOS 15G** will control only those Cutworms existing in the soil from the time of application up to 30 days following application.

Application Rates and Pests Controlled

| Pests Controlled | Banded Applications (Oz. per 1000 Feet of Row) | | Aerial Broadcast (lb/Acre) |
|--|---|------------------------|-------------------------------|
| | At Plant Treatment | Postplant Treatment | |
| ★ Preventative treatments: Cutworms; Lesser Cornstalk Borers; Southern Corn Rootworm Larvae; Wireworms; White Mold (Southern Blight) | 7.5 to 15 | 7.5 to 15 | - |
| ★ ★ Rescue Treatments: Lesser Cornstalk Borer | - | 7.5 to 15 | 10 to 13 |
| Burrowing Bug | - | - | 13.3 |

★ At Plant Preventive Treatment: Apply **NUFOS 15G** in a 6 to 12 inch band over the row behind the planter shoe and in front of the press wheel. Incorporate granules to a depth of 1-inch with tines or chains or other suitable equipment. If the 7.5 ounce rate is used at planting time, then another application of 7.5 oz. per 1,000 feet of row should be made postplant to extend control.

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★ **Postplant Preventive Treatment:** Apply **NUFOS 15G** to peanuts at early flowering to pegging stage of growth in a 6 to 8 inch band over the row. For extended insect control and continued suppression of White Mold (Southern Blight), a second application of **NUFOS 15G** may be made. Best suppression of White Mold (Southern Blight) is obtained by applying the maximum rate of 15 oz per 1000 ft of row for each postplant treatment. Irrigation or rain following application is needed to enhance treatment effectiveness for suppression of White Mold. Under conditions of heavy white mold pressure, a suitable fungicide may also be required and must be applied separately.

★★ **Band Rescue Treatment:** Use **NUFOS 15G** for the control of Lesser Cornstalk Borer when the insect first appears, usually just prior to or at pegging. Apply in a 10 to 18 inch band over the fruiting zone.

★★ **Broadcast Rescue Treatment:** Use **NUFOS 15G** for the control of Lesser Cornstalk Borer when the insect first appears, usually just prior to or at pegging. Uniformly apply at a rate of 10 to 13 pounds per acre by aerial broadcast application. For control of burrowing bugs, use **NUFOS 15G** when adults first appear, usually at mid to late pegging. Uniformly apply at a rate of 13.3 pounds per acre by aerial broadcast application. Care must be taken to ensure proper equipment calibration and delivery.

RESTRICTIONS: Do not apply more than 15 ounces of **NUFOS 15G** per application per 1000 feet of row or 13.3 pounds of **NUFOS 15G** per acre per application. Do not apply more than 30 oz per 1000 feet of row or 26.6 pounds per acre per crop season. Do not harvest within 21 days after treatment. Do not feed peanut forage or hay to meat or dairy animals. The combined total of preplant and postplant applications of **NUFOS 4E** and **NUFOS 15G** must not exceed 4 pounds of active ingredient per acre per crop season.

SOYBEANS

Application Rates and Pests Controlled

| Pests Controlled | Banded Applications Oz. per 1000 Feet of Row | | |
|------------------------------------|---|------|------------------------|
| | At Plant Treatments | | Postplant Treatment |
| | T-Band | Band | |
| Lesser Cornstalk Borer Cutworms | 8 | 8 | 8 |
| Fire Ants | 8 | - | - |

At Plant and Postplant Treatments: Use **NUFOS 15G** insecticide to control larvae of the Lesser Cornstalk Borer and Cutworms by application at planting time or

postemergence as a band (row) treatment at the rate of 8 oz per 1000 feet of row. In the Southeast apply 4 to 8 oz per 1000 feet of row as an at plant treatment. Equivalent rates of **NUFOS 15G** per acre for various row spacings are given in the accompanying table. When applied at planting time incorporate the granules into the top 1 inch of soil by placing in a 4 to 10 inch band over the row behind the planter shoe and ahead of the press wheel. A drag chain can also be used for incorporation. For postemergence treatment when insects first appear incorporate the granules in a 4 to 10 inch band to a depth of 1/2 to 1 inch using a suitable cultivator. Apply **NUFOS 15G** with equipment that will provide uniform distribution of the granules. Do not apply as an in-furrow treatment. For suppression of Fire Ants, use **NUFOS 15G** at 8 oz per 1000 feet of row as an at-plant T-band treatment.

Restrictions: Do not make more than one application per season.

SUGAR BEETS

Granular Insecticides, including **NUFOS 15G**, may contribute to the stress of the sugar beet plant under certain environmental conditions. This stress may reduce plant stand or interfere with normal plant development. Herbicides used preplant incorporated may interact with insecticides and enhance this stress.

Application Rates and Pests Controlled

| Pests Controlled | Banded Applications Oz. per 1000 Feet of Row | | |
|-------------------------|---|------------|------------------------|
| | At Plant Treatments | | Postplant Treatment |
| | T-Band | Band | |
| Sugar Beet Root Maggot | - | 4.5 to 9.0 | 6.5 to 9.0 |
| Cutworms | - | 6.6 to 9.0 | - |
| Wireworms (Suppression) | - | 6.5 to 9.0 | - |

At Plant Band Treatment: To control Sugar Beet Root Maggot Larvae and Cutworms at planting time, place **NUFOS 15G** in a band 4 - 5 inches wide behind the planter shoe, over the drill row, and in front of the press wheel. Do not apply granules in direct contact with seeds. Apply **NUFOS 15G** at the rate of 4.5 to 9 ounces per 1000 feet of row (equivalent to 6.75 to 13.5 lb per acre based on a 22-inch row spacing.) When Root Maggot populations are expected to be low, apply **NUFOS 15G** at a rate of 4.5 ounces per 1000 feet of row (equivalent to 6.75 lb per acre based on 22- inch row spacing). If initial adult fly activity indicates higher than anticipated populations, apply **NUFOS 4E** at or near the time of peak adult emergence to augment control. (Review label for **NUFOS 4E** for recommended use rates, application timing, methods of application, and insecticide resistance management.) Incorporate **NUFOS 15G** into the top 1/2 to 1-inch of soil using suitable equipment.

Postemergence Band Treatment: For postemergence control of Sugar Beet Maggot Larvae, place **NUFOS 15G** in a band 3 to 5 inches wide over the beet row (up to the 2 to 4 true leaf stage of plant growth). Apply **NUFOS 15G** at the rate of 6.5 to 9 oz per

1000 feet of row (equivalent to 10 to 13.5 lb per acre based on 22-inch row spacing). Incorporate **NUFOS 15G** into the top 1/2 to 1 inch of soil using a suitable incorporation device.

Restrictions: Do not make more than one application per year.

SUNFLOWERS

Pest Controlled: cutworms

Application rate: 8 oz per 1000 feet of row

At Plant Band Treatment: Place the granules in a 7-inch wide band over the row behind the planter shoe in front of the press wheel and incorporate into the top one inch of soil using suitable equipment.

Restrictions: Do not make more than one application per season

SWEET POTATOES

Pests Controlled : Wireworms (*Conoderus*), Flea Beetles (*Systema*), and Sweet Potato Beetle

Application Rate: 13.5 lb / acre

Preplant Broadcast Treatment: Use **NUFOS 15G** to reduce the feeding damage caused by populations of the listed pests. Evenly broadcast the granules over the soil surface and then incorporate the granules into the soil to a depth of 4 to 6 inches using a rotary hoe, disc cultivator, or other suitable 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 15G** will protect against feeding damage). **NUFOS 15G** will not control False Wireworm or Whitefringed Beetle and 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

Pests Controlled: Cutworms, Flea Beetle Larvae, Root Maggots, and Wireworms

Application Rate: 12.5 to 20.0 lb / acre

Preplant Broadcast Treatment: Apply **NUFOS 15G** one week before transplanting, using equipment that will evenly distribute the granules over a treated area. Immediately following application, incorporate the granules into the soil to a depth of 2 to 4 inches using suitable equipment. The application of **NUFOS 15G** will also suppress movement of imported Fire Ants into a treated field.

Restrictions: Do not make more than one application per season.

BRASSICA (COLE) CROPS

(Broccoli, Brussels sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collards, Kale, Kohlrabi, Rutabagas and Turnips)

Pest Controlled: Root Maggot

Application Rate: 4.6 to 9.2 ounces per 1000 feet of row

At Plant T-Band Treatment: For direct seeded and transplanted crops, apply **NUFOS 15G** as a 4-inch wide band centered over the row. This application requires a spreader or splitter on the end of the applicator drop tube. Shallow incorporation is necessary. Placement behind the planter shoe and in front of the press wheel is recommended.

Restrictions : Do not apply more than 7 1/2 pounds of **NUFOS 15G** per acre to crops planted in 40-inch rows or more than 15 pounds of **NUFOS 15G** per acre to crops planted in 20-inch rows (or two rows per bed). Use proportional amounts for other row spacings not to exceed 15 pounds of **NUFOS 15G** per acre. Do not make more than one application per season. Do not use rutabaga tops for food or feed purposes.

RADISHES

Pest Controlled: Root Maggot

Application Rate: 3.3 ounces per 1000 feet of row

At Plant In-Furrow Treatment: Place the granules in the seed furrow with the seed at planting time.

Restrictions: Do not apply more than 18.3 pounds of **NUFOS 15G** per acre or make more than one application per season.

Table 1
Application Rate Table - Application Rates per 1000 Ft of Row and
Equivalent per Acre Rates for Different Row Widths

Pounds of NUFOS 15G Required
Per Acre for Different Row Widths

| Amount of NUFOS 15G Per 1000 feet of row | 40" | 38" | 36" | 34" | 32" | 30" | 22" | 18" |
|---|-----|-----|-----|-----|-----|-----|------|------|
| 3.7 ounces | 3.0 | 3.2 | 3.4 | 3.6 | 3.8 | 4.0 | 5.5 | 6.7 |
| 4 ounces | 3.3 | 3.4 | 3.6 | 3.8 | 4.1 | 4.4 | 5.9 | 7.3 |
| 4.5 ounces | 3.7 | 3.9 | 4.1 | 4.3 | 4.6 | 4.9 | 6.7 | 8.2 |
| 6 ounces | 4.9 | 5.2 | 5.4 | 5.8 | 6.1 | 6.5 | 8.9 | 10.9 |
| 6.5 ounces | 5.3 | 5.6 | 5.9 | 6.2 | 6.6 | 7.1 | 9.7 | 11.8 |
| 7.5 ounces | 6.1 | 6.4 | 6.8 | 7.2 | 7.7 | 8.2 | 11.1 | 13.6 |
| 8 ounces | 6.5 | 6.9 | 7.3 | 7.7 | 8.2 | 8.7 | 11.9 | 14.5 |

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| Amount of NUFOS 15G Per 1000 feet of row | 40" | 38" | 36" | 34" | 32" | 30" | 22" | 18" |
|---|------|------|------|------|------|------|------|------|
| 9 ounces | 7.4 | 7.7 | 8.2 | 8.6 | 9.2 | 9.8 | 13.4 | 16.3 |
| 12 ounces | 9.8 | 10.3 | 10.9 | 11.5 | 12.3 | 13.1 | 17.8 | 21.8 |
| 15 ounces | 12.3 | 12.9 | 13.9 | 14.4 | 15.3 | 16.3 | 22.3 | 27.2 |
| 16 ounces | 13.1 | 13.8 | 14.5 | 15.4 | 16.3 | 17.4 | 23.8 | 29.0 |

Table 2

Equipment Calibration and Calibration Settings for Different Types of Equipment

General Instructions for Equipment Calibration

Caution: The following chart lists suggested initial gauge settings for application of **NUFOS 15G** with one hopper opening per row. Be sure to check the actual application rate under your operating conditions.

1. Fill Hopper.
2. Attach a plastic bag to tube opening.
3. Set your planter to the initial settings shown on chart.
4. Measure off 1,000 row feet and drive your planter the pre-measured distance at your desired speed.
5. Each bag should contain 6 to 8 ounces (wt.) of granules depending on your desired rate.
6. If the result is over or under the desired rate - adjust the settings and repeat the calibration.

Calibration Settings

| | Speed (mph) | | | | | | | | | |
|---|---|----------|----------|----------|----------|----------|----------|----------|----------|---------|
| | 4 | | 5 | | 6 | | 7 | | 8 | |
| | Application Rate, oz. per 1000 row feet | | | | | | | | | |
| | 8 | 16 | 8 | 16 | 8 | 16 | 8 | 16 | 8 | 16 |
| PLANTER TYPE | Gauge Setting | | | | | | | | | |
| Gandy ¹ | 21.4 | 30.2 | 23.7 | 32.4 | 26.0 | 36.0 | 27.7 | 39.0 | 30.2 | 41.0 |
| John Deere ¹ Max-Emerge ² | 20 | 44 | 26 | 46 | 30 | 49 | 35 | 52 | 40 | 54 |
| John Deere ¹ 7000 Max-Emerge (Odd Nos. on Gate) | 14 | 22 | 16 | 24 | 18 | 26 | 19 | 28 | 21 | 30 |
| John Deere ¹ 71 Flexi-Planter and Older Planters | 1 30 | 2 17 | 2 5 | 2 22 | 2 9 | 2 27 | 2 13 | 2 31 | 2 16 | 3 16 |
| Allis Chalmers ³ 70 Series | 8 | 13 | 8 | 13 | 8 | 13 | 8 | 13 | 8 | 13 |
| Allis Chalmers ⁴ 78 and 79 Series | 1 9.0 | 3 3.0 | 2 3.3 | 3 9.5 | 2 6.0 | 4 3.0 | 2 9.0 | 5 4.0 | 3 2.5 | 6 0 |

| | Speed (mph) | | | | | | | | | |
|---|---|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| | 4 | | 5 | | 6 | | 7 | | 8 | |
| | Application Rate, oz. per 1000 row feet | | | | | | | | | |
| | 8 | 16 | 8 | 16 | 8 | 16 | 8 | 16 | 8 | 16 |
| PLANTER TYPE | Gauge Setting | | | | | | | | | |
| Noble ¹ (new) | 11 | 19 | 14 | 22 | 16 | 25 | 17 | 28 | 19 | 31 |
| White Planter | 11 | 19 | 14 | 22 | 16 | 25 | 17 | 28 | 19 | 31 |
| International Harvester ⁴ | 1 9.0 | 3 3.0 | 2 3.3 | 3 9.5 | 2 6.0 | 4 3.0 | 2 9.0 | 5 4.0 | 3 2.5 | 6 0 |
| Buffalo All-Flex ⁵ (Fleischer Mfg.) | 4 7/8 | 10 | 4 7/8 | 10 | 4 7/8 | 10 | - | - | - | - |

1 - Gauge setting

2 - Gauge setting with range 1 & 2 - number is (range / notch)

3 - Gauge setting is constant regardless of speed

4 - Gauge setting shown with stem gates & dial settings - number shown is (gate / dial)

5 - Number of turns open on the adjustment nut

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