



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

April 9, 2025

Negela Moaddeb
Head of Regulatory Affairs
Bonide Products, LLC
6301 Sutliff Road
Oriskany, NY 1324

Subject: Registration Review Label Amendments Incorporating Mitigation Measures from the Interim Decision for Copper Sulfate and the National Marine Fisheries Services' (NMFS) Biological Opinion on the Effects of Carbaryl on Federally Listed Endangered and Threatened Species and Designated Critical Habitat in Accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.).
Product Name: Bonide Vegetable-Floral Dust
EPA Registration Number: 4-474
Application Date: 4/26/2024 and 6/11/2024
Decision Number: 595774 and 595963

Dear Negela Moaddeb:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Copper Compounds Interim Decision. The Agency has concluded that your submission is acceptable.

This letter also addresses the label mitigation resulting from the NMFS' Biological Opinion on the effects of carbaryl on federally listed endangered and threatened species and designated critical habitat in accordance with section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.). The Agency has concluded that your submission is also acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

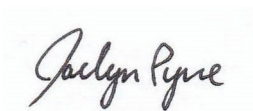
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

The Agency received the U.S. Fish and Wildlife Service's (FWS) BiOp on the effects of EPA's national registration of carbaryl and posted it on the [website](#) on April 9, 2025. The Agency plans to incorporate and implement this FWS BiOp when issuing the interim decision for carbaryl. EPA will notify the registrants of any need to submit label amendments within 60 days of the issuance of the interim decision.

If you have any questions about this letter, please contact Carolyn Smith at smith.carolyn@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Jaclyn Pyne". The signature is written in a cursive, flowing style.

Jaclyn Pyne, Team Leader
Risk Management and Implementation Branch 3
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

CARBARYL	GROUP	MODE OF ACTION CODE: 1A	INSECTICIDE
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Bonide® Vegetable – Floral Dust

[Additional Brand Names (ABN): Bonide® Tomato-Potato Dust; Bonide® Tomato-Potato Dust; Bonide® Copper Dragoon; Bonide Dragoon Dust with Copper; Bonide Rose RX Insect & Disease Control]

ACTIVE INGREDIENTS:

Carbaryl (CAS #63-25-2) 1.25%

Basic Copper Sulfate* (CAS #1344-73-6) 13.72%

OTHER INGREDIENTS 85.03%

TOTAL 100.00%

(*Metallic Copper Equivalent 7.26%)

E.P.A. Reg. No. 4-474

E.P.A. Est. No. 4-NY-1

NET WEIGHT: (Packed by weight not volume)

KEEP OUT OF REACH OF CHILDREN
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.)

[See [side][&][back] [panel] [inside] [attached] [leaflet] [booklet][bag] [carton][attached to] [individual containers][for complete] [First Aid Instructions] [Precautionary Statements], [Precautions][Directions] [for Use] [and] [Storage and Disposal] [Instructions][Information]].

(Note to reviewer: Location of additional precautionary statements, directions for use will vary between those listed, depending on container type/size.)

ACCEPTED

04/09/2025

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

4-474

FIRST AID

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.

If Swallowed:

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

If in Eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If on Skin or

- Take off contaminated clothing.

Clothing:	<ul style="list-style-type: none"> • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If Inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
Note to Physician: Contains carbaryl, a moderate reversible cholinesterase inhibitor. Atropine is antidotal. Do not use 2-PAM, opiates or cholinesterase inhibiting drugs.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION:

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE):

Wear: long-sleeved shirt, long pants, shoes plus socks and household latex or rubber gloves when applying this product.

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- User should 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.
- As with any pesticide product, wash hands thoroughly immediately after handling and before eating, smoking or using the toilet.
- Do not allow children or pets to contact treated area until dust has settled.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. To protect the environment, do not allow pesticide to enter or run off into storm drains,

drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 48 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

For terrestrial uses: DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

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. Additional protective information may be obtained from your Cooperative Extension Service.

DIRECTIONS FOR USE

STOP - READ THE LABEL BEFORE USE

**It is a violation of federal law to use this product in a manner inconsistent with its labeling.
Read entire label before using this product.**

Treat surfaces to ensure thorough coverage but avoid runoff.

To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.

REPORTING ECOLOGICAL INCIDENTS:

For guidance on reporting ecological incidents, including death, injury, or harm to plants and animals, including bees and other non-target insects, see EPA's Pesticide Incident Reporting website: <https://www.epa.gov/pesticide-incidents> or call (1-800-536-8231).

General Outdoor Application Statements

All outdoor applications, unless permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

1. Applications to soil, lawn, turf, or vegetation.
2. Perimeter band treatments of 6 ft wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or lawn).
3. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch.
4. Applications to vertical surfaces directly above pervious surfaces, such as bare soil, lawn, turf, mulch or other vegetation, that do not drain into ditches, storm drains, gutters, or surface waters.

Spot Treatment Guidance Statement

Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft).

DO NOT apply during rain.

DO NOT apply when soil in the area to be treated is saturated (if there is standing water on the field or if water can be squeezed from soil) or if NOAA/National Weather Service predicts a total rainfall of 1 inch or greater over the 48 hours following the day of application, only considering a 48-hour period when, at any point during the 48-hour period, the precipitation potential is 50% or greater. Detailed National Weather Service forecasts for local weather conditions should be obtained on-line at: www.weather.gov or by contacting your local National Weather Service Forecasting Office.

Spray Drift Buffer to Aquatic Habitats for residential uses

DO NOT apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams or ephemeral streams when water is present, wetlands or natural ponds, estuaries, and commercial fish farm ponds).

Water Protection Statements

- Do not spray the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.
- Do not allow the product to enter any drain during or after application.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.
- Do not apply to vertical surfaces directly above pervious or impervious surfaces that drain into ditches, storm drains, gutters, or surface waters.
- Do not apply or irrigate to the point of runoff.

USE RESTRICTIONS

- **DO NOT** apply this product in a way that will contact adults, children, or pets, either directly or through drift.
- **DO NOT** allow adults, children or pets to enter the treated area until dusts have settled.
- **DO NOT** apply to trees.
- **DO NOT** apply this product for agricultural uses in Hawaii.

USE INSTRUCTIONS

Bonide® Vegetable – Floral Dust – To control certain insects and to control or prevent certain blight, leaf spots, mildew and certain other diseases on listed plants. Use as a dust any time conditions are favorable, as soon as plants are above the ground or as soon as insects appear. Keep foliage covered, especially new growth.

When dusting, wear household latex or rubber gloves. Apply only from this shaker bottle [can][canister][container]. Dust lightly to cover both upper and lower leaf surfaces with a thin, even film of dust.

Apply when air is calm to avoid drift and contact with eyes and skin. For plants above chest height consider using a liquid carbaryl product [liquid product, such as Bonide Rose RX].

Start dusting at the farthest corner of the treatment area and work backward to avoid contact with dusted surfaces. Allow dust to settle in treated areas before re-entering.

Asa Dust: This bottle[can][canister][container] is a squeeze type duster. Shake bottle[can][canister][container] to fluff powder. Press sides of bottle [can][canister][container] with fingers, using rapid motion for fog effect.

When to Apply: For insects apply when insects appear. Young insects and larvae are usually easier to control than adults. When blossoms are in full bloom, protect pollinators by using a fungicide only, such as Bonide® Copper Dust. For disease, applications should begin well before they are expected to appear.

CROP USE DIRECTIONS

(PHI – Preharvest Interval)

CROP [SITE]	USE RATE	DISEASES	INSECTS CONTROLLED OR REPELLED
Beans (Green, Lima, Snap), Peas	4 oz per 1000 sq. ft. Apply every 7 days; do not exceed 6 applications per year. (3) day PHI	Bacterial blight, downy mildew	Mexican bean beetle, flea beetle, leafhopper, stink bug, tarnished plant bug, cutworm, armyworm.
Cabbage, Broccoli, Cauliflower, Brussels Sprouts	2½ oz per 1000 sq. ft. Apply every 7 days; do not exceed 5 applications per year. (3) day PHI	Downy mildew, leaf spot	Imported cabbage worm, cabbage looper, diamond back moth, aphid.
Carrot	5¼ oz per 1000 sq. ft. Apply every 7 days; do not exceed 5 applications per year. (7) day PHI	Downy mildew, leaf spot	Flea beetle, thrips, aphid, carrot rust fly.
Beet	5¼ oz per 1000 sq. ft.	Downy mildew, leaf	Flea beetle, thrips, aphid, carrot rust

	Apply every 10 days; do not exceed 5 applications per year. (7) day PHI	spot	fly.
Celery	5¼ oz per 1000 sq. ft. Apply every 7 days; do not exceed 5 applications per year. (14) day PHI	Early and late blight, leaf spot	Parsnip webworm, two-spotted spider mite, tarnished plant bug, carrot rust fly, aphid.
Lettuce (Head & Leaf)	5¼ oz per 1000 sq. ft. Apply every 5 days; do not exceed 4 applications per year. (14) day PHI	Early and late blight, leaf spot	Parsnip webworm, two-spotted spider mite, tarnished plant bug, carrot rust fly, aphid.
Spinach	4 oz per 1000 sq. ft. Apply every 7 days; do not exceed 4 applications per year. (14) day PHI	Early and late blight, leaf spot	Parsnip webworm, two-spotted spider mite, tarnished plant bug, carrot rust fly, aphid.
Melons, Pumpkin, Squash	5¼ oz per 1000 sq. ft. Apply every 5 days; do not exceed 4 applications per season year. (3) day PHI	Angular leaf spot, downy mildew, powdery mildew, gummy stem blight, anthracnose, leaf spots, scab	Pickleworm, melonworm, cucumber beetle, young squash bug, aphid, two- spotted mite.
Cucumber	5¼ oz per 1000 sq. ft. Apply every 5 days; do not exceed 4 applications per year. (3) day PHI	Angular leaf spot, downy mildew, powdery mildew, gummy stem blight, anthracnose, leaf spots, scab	Pickleworm, melonworm, cucumber beetle, young squash bug, aphid, two- spotted mite.
Potato	12 oz per 1000 sq. ft. Apply every 5 days; do not exceed 10 applications per year. (7) day PHI	Early and late blights	Colorado potato beetle, flea beetle, leafhopper, young tomato hornworm, tomato pinworm, tarnished plant bug, stink bug, aphid, thrips, white fly, mealybugs, Japanese beetle.
Sweet Potato	12 oz per 1000 sq. ft. Apply every 5 days; do not exceed 4 applications per year. (7) day PHI	Early and late blights	Colorado potato beetle, flea beetle, leafhopper, young tomato hornworm, tomato pinworm, tarnished plant bug, stink bug, aphid, thrips, white fly, mealybugs, Japanese beetle.
Tomato	2½ oz per 1000 sq. ft. Apply every 3 days; do not exceed 4 applications per year. (3) day PHI	Early and late blight, anthracnose, bacterial spot, leaf spots, nail head rust, Septoria and Stemphylium leaf mold	Colorado potato beetle, flea beetle, leafhopper, young tomato hornworm, tomato pinworm, tarnished plant bug, stink bug, aphid, thrips, white fly, mealybugs, Japanese beetle.
Eggplant	4 oz per 1000 sq. ft. Apply every 7 days; do not exceed 10 applications per year. (3) day PHI	Early and late blight, anthracnose, bacterial spot, leaf spots, nail head rust, Septoria and Stemphylium leaf mold	Colorado potato beetle, flea beetle, leafhopper, young tomato hornworm, tomato pinworm, tarnished plant bug, stink bug, aphid, thrips, white fly, mealybugs, Japanese beetle.

Pepper	4 oz per 1000 sq. ft. Apply every 3 days; do not exceed 15 applications per year. (3) day PHI	Early and late blight, anthracnose, bacterial spot, leaf spots, nail head rust, Septoria and Stemphylium leaf mold	Colorado potato beetle, flea beetle, leafhopper, young tomato hornworm, tomato pinworm, tarnished plant bug, stink bug, aphid, thrips, white fly, mealybugs, Japanese beetle.
Strawberries	5¼ oz per 1000 sq. ft. Apply every 7 days; do not exceed 4 applications per year. For heavy disease pressure, apply 8 oz. per 1000 sq. ft., do not exceed 4 applications per year at this higher rate. (7) day PHI	Leafy spot, downy mildew, leaf blight, leaf scorch	Leaf roller, weevil, red spider, spittlebug.

CROP [SITE]	USE RATE	DISEASES	INSECTS CONTROLLED OR REPELLED
Arborvitae, Asters	12 oz per 1000 sq. ft. Apply every 7 days; do not exceed 4 applications per year.	Blight, leaf spots	Red spider, flea beetle, thrips, Japanese beetle, leaf roller, birch leaf miner, lace bugs, tent caterpillar.
Azaleas, Begonias, Rhododendrons		Leaf blight, leaf scorch, leaf spot	Aphids, mites, rose chafer, Japanese beetle, flea beetle, thrips, leafhopper, red spider, and repels bagworms.
Chrysanthemums		Botrytis blight, downy mildew, leaf spots	
Flowering Shrubs, Hawthorne, Gardenias, Marigolds, Phlox, stocks		Leaf spots	
Roses		Anthrachnose, black spot, downy and powdery mildews, leaf spots, stem canker	

Turf and Lawn Use:

Turf grass can only be used up to 10 lbs ai/acre/year or apply smaller amount than 10 lbs.

STORAGE AND DISPOSAL

Pesticide Storage: Store and transport in an upright position. Store in a cool dry area inaccessible to children or pets.

Pesticide Disposal: *If partly filled* – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Container Disposal: *If empty* – Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

WARRANTY STATEMENT

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Bonide Products, LLC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Bonide Products, LLC and Seller harmless for any claims relating to such factors.

To the extent consistent with applicable law, Bonide Products, LLC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Bonide Products, LLC., and Buyer and User assume the risk of any such use. BONIDE PRODUCTS, LLC., MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, IT IS **BONIDE PRODUCTS, LLC, AND SELLERS INTENTION THAT** in no event shall Bonide Products, LLC or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF BONIDE PRODUCTS LLC., AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF BONIDE PRODUCTS, LLC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

To the extent consistent with applicable law, Bonide Products, LLC. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability,

For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

OPTIONAL MARKETING STATEMENTS:

Ready-to-Use

Convenient Shaker Bottle [Can][Canister][Container]

No Mixing

No Mess

Controls both insects and disease on tomatoes and vegetables.

Use as a spray or dust.

Controls both listed insects and listed diseases.

Green dust blends with foliage

For use on roses, flowers, ornamentals, and evergreens

For use on roses, flowers and shrubs

Manufactured by:

Bonide Products, LLC.
6301 Sutliff Road
Oriskany, NY 13424

[Batch Code to be inserted at production]

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