



Section 18 Emergency Exemption

CYPERMETHRIN GROUP 3A INSECTICIDE

**FOR USE ON ORNAMENTAL PALM CROWNS FOR CONTROL OF COCONUT RHINOCEROS BEETLE
(ORYCTES RHINOCEROS) IN THE STATE OF HAWAII***

**EFFECTIVE DATE: April 22,2024
EXPIRATION DATE: April 22, 2027**

**Demon® Max
EPA Reg. No. 100-1218
EPA File No. 23HI05**

Active Ingredient:

Cypermethrin:¹ (±)α-cyano-(3-phenoxyphenyl)methyl(±)-*cis,trans*-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate* 25.3%

Other Ingredients: 74.7%

Total: 100.0%

¹Pyrethroid Insecticide

Contains petroleum distillates.

**Cis/trans* ratio: Min. 45% (±) *cis* and max. 55% (±) *trans*

Demon Max contains 2 lbs active ingredient per gallon formulated as an emulsifiable concentrate.

**KEEP OUT OF REACH OF CHILDREN
WARNING/AVISO**

***FOR USE ONLY ON ALL THE ISLANDS IN THE STATE OF HAWAII EXCEPT OAHU**

DIRECTIONS FOR USE

- It is a violation of federal law to use this product in a manner inconsistent with its labeling.
- Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA-registered Demon Max label (EPA Reg. No. 100-1218).
- This label must be in the possession of the user at the time of application.
- Failure to follow the Directions for Use and Precautions on this label may result in poor insect control, crop injury, or illegal residues.
- Aerial applications under this labeling may only be used by applicators with a current Category 4 Restricted Use Pesticide Certification or those working under the direct supervision of an applicator with a current Category 4 Restricted Use Pesticide Certification

For optimal control, applications should target the adult life stage of the Coconut Rhinoceros Beetle at or before egg laying and feeding damage. Apply using a directed spray to treat the proximal area of the palm fronds and crown where adults may be actively feeding or to decaying areas of the crown or trunk where adults may be laying eggs.

NOTIFICATION REQUIREMENTS

Applicators must notify Hawaii Department of Agriculture (HDOA) at least seven (7) days prior to intended application. Notification must include the following information:

- Name of applicator(s)
- Employer's name
- Phone number
- E-mail address (if applicable)

- Location (address, Tax Map Key, or GPS coordinates)
- Acreage
- Estimated date of application

Completed Use Reports: Applicators must submit a completed use report to HDOA within sixteen (16) days of application via email or hardcopy through mail. Completed use reports will be submitted on forms provided by HDOA. Contact HDOA at hdoa.sec18@hawaii.gov or at 808-973-9415 to acquire the necessary forms.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others (including children or pets) to enter treated areas until sprays have dried.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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:

- Long-sleeve shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks

NON-TARGET ORGANISM ADVISORY STATEMENT

This product is highly toxic to bees and other pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds. This product is extremely toxic to fish and aquatic invertebrates. Protect pollinating insects by following label directions intended to minimize drift and reduce pesticide risk to these organisms.

AERIAL APPLICATION

When applying via aerial application, Demon Max can only be applied from unmanned aircraft capable of stationary flight equipped with a sprayer. For aerial applications, the applicator must have an active FAA 14 CFR part 107 remote pilot license and be operating under an approved Certificate of Authorization or 14 CFR part 137 Agricultural Operator Certificate from the FAA for aerial application.

Pilots of unmanned aircraft must wear the following PPE:

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

GROUND SPRAY APPLICATION

Apply Demon Max in a dilute application capable of treating the lower portion of the crown and covering the lower portions of the frond. This can be done through commonly used ground application equipment such as a sprayer or by hand using a manual sprayer capable of spraying into the Palm canopy by personnel on the ground.

APPLICATION RATES

Dosage (amount of product to be mixed in water): Product emulsion (provided at 25.3% active ingredient/cypermethrin) is to be diluted to 0.5% active ingredient in water prior to application. For control of

Coconut Rhinoceros Beetle, use the table below for selecting the amount of Demon Max to mix in the selected Spray Volume (water).

To make a 0.5% active ingredient spray solution:

Demon Max (fl oz)	Water (gallons)
2.5	1
5	2
10	4

Rate (amount mixture to be applied per unit area): For optimum control, using a coarse spray, apply sufficient spray volume to thoroughly wet and cover the crown and proximal end of each frond to the point of drip. For adequate coverage of a typical coconut -palm's lower crown and fronds where the beetle feeds, it is estimated an approximate spray volume of 64 oz is necessary to treat a 3-foot diameter crown, or 7.07 sq ft area. However, for use with other palm species of different size and morphology consult with your local extension office at <https://cms.ctahr.hawaii.edu/ce/Find-Us> or consult with Daniel Jenkins, Pd.D., at (808) 781-1343 to select appropriate spray volumes to achieve optimum coverage consistent with the description above.

FREQUENCY/TIMING OF APPLICATION

Apply once every 1-3 months. A one-month interval is recommended if pressure is high and eradication is desired. Longer intervals are recommended for light and infrequent pressure. Regardless of the application frequency, rotation of other pesticides and IPM control measures is recommended. Do not apply more than two (2) consecutive applications of Demon Max before rotating to an alternative insecticide. Do not make more than 8 applications per palm tree per year.

AERIAL APPLICATION RESTRICTIONS

- Do not release spray at a height greater than 10 feet above the vegetative canopy unless a greater application height is necessary for aircraft safety. Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
- Do not apply when wind speeds exceed 15 mph at the application site.
- If the windspeed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When windspeed is between 11-15 miles per hour, applicators must use 3/4 swath displacement upwind at the downwind edge of the field.
- Do not apply during temperature inversions.
- For non-ultra low volume aerial applications, do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

GROUND APPLICATION RESTRICTIONS

- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.
- Do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

CONTROLLING DROPLET SIZE – GROUND BOOM

- **Volume** – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

- **Pressure** – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

CONTROLLING DROPLET SIZE – AIRCRAFT

- **Adjust Nozzles** – Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – GROUND BOOM

- For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT – AIRCRAFT

- Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

- Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

- When making applications in hot and dry conditions, use larger droplets to reduce the effects of evaporation.

TEMPERATURE INVERSIONS

- Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

- Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.
- Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

RESTRICTIONS

- For outdoor use only.
- This Section 18 label can be used by nurseries to only control the Coconut Rhinoceros Beetle.
- Applicators, pilots, and other personnel will be at a distance of 50 feet or at a distance equivalent to the tree height, whichever is greater, when treating trees via unmanned aerial vehicles.
- Not for use on food/feed crops.
- Do not apply by plane or helicopter.
- Do not apply as an ultra-low volume aerial application.
- This product may be applied to palm trees with fruit or seed only if the fruit/seed is intended solely for conservation, propagation, or ornamental use and will not be consumed by humans or animals.
- This product is highly toxic to bees exposed to direct treatment on blooming crops/plants or weeds. Do not apply this product or allow it to drift to blooming crops/plants or weeds while bees are foraging in or adjacent to the treatment area.
- Pre-Harvest Interval: N/A

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Registrant:
Syngenta Crop Protection, LLC
PO Box 18300

Demon® Max: Section 18 Quarantine Label
EPA File Symbol:

Greensboro, NC 27419-8300

Label Code: HI1218015AB0723