



BeeSafe Cedar Spray

FOR PROFESSIONAL USE

BeeSafe Cedar Spray Professional Pest Management Concentrated Formula is designed for professionals to kill & repel crawling, flying Insects, eggs, larvae & nymphs

Recommended Uses:

Outdoor areas: lawns, trees, shrubs, gardens & agriculture

Indoor & outdoor Industrial Uses: indoor & outdoor spraying of manufacturing facilities, dairy facilities, Military installations (outdoor applications only), parks (public & private) amusement parks, manufacturing plants, poultry facilities, industrial buildings, kennels, warehouses, golf courses, playgrounds, zoos, livestock areas (hogs, chickens, cattle & exotics)

Important Note: BeeSafe Cedar Spray Professional Formula should not be used in the interior of homes, hospitals, schools, apartments, barracks, nursing homes, restaurants, motels or Hotels for insect control.

For the above agenda's see BeeSafe Cedar Spray Original formulation, a ready to use formula tested and proven to work on various indoor insects.

Recommended Equipment: Power Sprayers, Backpack and hand held Pump Sprayers, Fogging, Misting systems, Water injection pumps, Fan sprayers, electrostatic vineyard sprayers, Tractor Boom sprayers

First Application - Apply twice in a 7 to 10 day period to establish control of the egg laying cycle. Then spray once every 30 days.



Active Ingredients

Cedarwood Oil.....85%

25b active

Ethyl Lactate..... 15%

TOTAL:..... 100%



4a inactive

FIFRA 25(b) Exemption: This product has not been registered by the Environmental Protection Agency. This product qualifies for exemption under the federal insecticide, Fungicide and Rodenticide act.

USER SAFETY RECOMMENDATIONS:

CAUTION: KEEP OUT OF REACH OF CHILDREN. Avoid Contact with eyes. When applying **use protective eye wear and gloves**. In case of eye contact, flush with water for 15 minutes. Do not take internally. After use, wash hands with soap and water. Concentrations of over 1% may cause

phototoxic burn in some plant life if applied in temperature over 90 degrees. It poses least harm to the environment, pets, farm animals, water ways, soil, farms, crops, infants and children.

PERSONAL PROTECTIVE GEAR / EQUIPMENT:

- Protective eyewear
- gloves

IMPORTANT NOTE: NEVER SPRAY AROUND OPEN FLAMES OR DIRECTLY IN FACE OF HUMANS OR ANIMALS.

Compatibility - **BeeSafe Cedar Spray Professional Formula** is compatible with most pesticides & fertilizers.

STORAGE: Store in dry area. Avoid prolonged exposure to direct sunlight. Tightly reseal after opening to preserve shelf life.

IPM: Best results are achieved when used as part of a protocol that includes environmental and other pest control measures.

How this Product Works: The aroma of cedar oil is lethal to NON-BENEFICIAL insects which are driven by pheromone (odor) and heat stimuli. Cedar oil stifles the ability of the insect's receptors to detect food, mates, and disrupts its reproduction habitats. When comfort levels are destroyed, insects become overwhelmed and relocate to areas of concentration where sight driven predators such as birds, lizards, and beneficial insects will control infestations. Insect displacement interrupts the "egg laying cycle" eliminating a new generation of arthropod. Continued use of this product will create a barrier of re-entry, leaving a pest free landscape. Unlike synthetic chemical pesticides, **BeeSafe Cedar Spray Professional Formula** does not neutralize insects by poisoning. But acts in one or a combination of the following ways to kill them:

- (1) Osmotic Dehydration **BeeSafe Cedar Spray Professional Formula** leaches the insects and eggs body from moisture and dehydrates them
- (2) Prevention of Breathing: By irritating the respiratory system of the insects, especially those with high olfactory. **BeeSafe Cedar Spray Professional Formula** forces insects to avoid breathing, shutting down to avoid the extremely powerful irritants.
- (3) Pheromone Interference: that interrupts and attacks the octopamine neuro-receptors, crucial for neurotransmitter's regulation of metabolism, movement, feeding, reproduction and behavior.
- (4) Dissolving Insect Eggs, Larvae, Pupae, and Eroding the Exoskeleton and Cuticle of Adult Insects, thus exposing the inner delicate parts of the insects for their demise. This demise which **disrupts the Egg-layer cycles** helps control the next generation of insects.

General Outdoor Pest Management: To kill and or repel, eggs, larvae, nymphs of crawling and flying insects including, but not limited to, fleas, mosquitoes, flies, ants, cockroaches, beetles, grubs, meal worms, ticks, mites, weevils, spiders, leafhoppers, stink bugs, silverfish, potato bugs, crickets & carpenter bees.

Thoroughly spray areas which insects are usually found with attention to corners, cracks, crevices, trees (including fruit), wood piles, turf, garden areas, playgrounds including exterior walls and perimeter areas.

There are multiple dilution rates for the **BeeSafe Cedar Spray Professional Formula**. Lower rates are adequate for maintenance agenda's and higher rates would be acceptable for active infestations. A power sprayer is highly recommended for flying and crawling insects including but not limited to

fleas, mosquitoes, spiders, ticks and ants

Average dilution rates: 2 fluid oz. per gallon of water.

Automatic water injection systems through sprinkler systems: 2 oz. per zone per 1000 sq. ft. per month is the recommended dosage. Dispense diluted concentrate through automatic system for the control of fleas, ticks, chiggers, mosquitoes, ants and other flying and crawling insects.

Fogging & Misting Systems: Control of flying insects

Application rate: dilute 2 fluid oz. per gallon of water.

Recommended equipment: Conventional fogging and misting equipment

Turf and Grass Management: Use **BeeSafe Cedar Spray Professional Formula** as a general pest management spray and repellent. Controls ants, armyworms, billbugs, chinch bugs, chiggers, crickets, cutworms, earwigs, fleas, grasshoppers, Japanese beetles, grubs, mole crickets, sod webworms, ticks and other crawling insects. Note: For tick infestation see specific dilution rates

Application rate: Dilute 2 fluid oz. per gallon of water and apply approximately 2 gallons per 1000 sq. ft.

Recommended equipment: backpack, compressed air, pump or power sprayer until foliage is thoroughly wet.

Exceeding mix rates may create potential phytotoxicity of flowers and other ornamentals surfaces.

Fire Ant Management:

Application rate: dilute 4 fluid oz. per gallon of water.

Recommended equipment: backpack, compressed air, pump or power sprayer until foliage is thoroughly wet.

- 1) Apply 1 gallon of the pre-mixed ready to use formulation to each mound
- 2) Spray a 4 foot diameter around the mound,
- 3) Applicator should concentrate on the opening of the mound (if possible)
- 4) Recommended to spread the cedar granules in a 4 foot diameter circle around the mound

Grub Control Management:

Application rate: 4 fluid oz. per gallon of water

Recommended equipment: backpack, compressed air, pump or power sprayer until foliage is thoroughly wet.

1) Drench affected area, if possible drill/make narrow holes 2-3 inches deep. Fill with pre-mixed ready to use solution.

2) If unable to make holes it is recommended to spray affected area liberally and then soak in with water.

Cinch Bugs and Sod Webworms Management: Treat entire grass area rather than just damaged areas. Repeat application in 2-3 weeks, if necessary.

Application rate: 2% (2.56 oz.) per gallon water.

Recommended equipment: backpack, compressed air, pump or power sprayer until lawn & foliage is thoroughly wet

Tick Management: BeeSafe Cedar Spray Professional Formula controls adults, eggs, nymphs and larvae.

Application rate: 2.5% - 3.2 oz concentrate per gallon water.

Recommended equipment: backpack, compressed air, pump or power sprayer until lawn & foliage is thoroughly wet

Mosquito Control: To control adult mosquitoes & larvae

Application rate: 2 fluid oz. per gallon of water. Treat areas such as shrubbery and vegetation where mosquitoes & larvae harbor. Applicators should concentrate on shrubbery and vegetation around stagnant pools, marshy areas, ponds and shorelines. Repeat application as often as necessary.

Recommended equipment: Fogging, backpack, compressed air, pump or power sprayer until foliage is thoroughly wet.

Trees, Shrubs, Vineyards & Fruit Trees Management: To control mites, scale insects, mealybugs, aphids, lace bugs, whiteflies, tent caterpillars, bagworms and beetles. **Note:** Also, controls Powdery Mildew.

Application rate: 2 fluid oz. per gallon of water and apply using a compressed air sprayer or power sprayer until foliage is thoroughly wet.

Recommended equipment: Fan, misting, backpack, compressed air, pump or power sprayer until foliage is thoroughly wet on upper and lower leaves.

Exceeding rates may create potential phytotoxicity on plant surfaces.

Livestock Facilities including exotics, hogs, cattle, goats and fowl:

Application rate: 2 fluid oz. per gallon of water, apply 1 gallon of dilution per 500 sq ft to livestock, horse and poultry areas and thoroughly cover exterior walls of dairy barns, exotic and livestock sheds, poultry houses & hog facilities

Recommended equipment: backpack, compressed air, pump or power sprayer until foliage is thoroughly wet.

Agriculture uses Row Crops: 1:1000

BeeSafe Cedar Spray Pest Management Concentrate is used for a variety of arthropods: mites, aphids, Grasshoppers, Leaf hoppers, Stink bugs, Beetles & ants. Highly effective on Powdery Mildew

Best pest management agenda, thoroughly spray initial application, additional applications every 30 – 45 days or as often as needed.

Recommended Equipment: Power Sprayers, Backpack and hand held Pump Sprayers, Fogging, Misting systems, Water injection pumps, Fan sprayers, electrostatic vineyard sprayers, Tractor Boom sprayers

Application rate: 1gallon concentrate to 1000 gallons of water - **50 to 100 gallons per acre of crops**

Nematodes Management:

Best application is to spray soil down prior to planting, then plowing the soil.

Application rate: 1 gallon concentrate to 1000 gallons of water - 100 gallons per acre of crops

Treats: approximately 10 acres

DISPOSAL: Do not reuse container. Recycle or Discard in trash.

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