



Frequently asked questions

Can NUVAN Directed Spray Aerosol be applied to a mattress?

Yes. NUVAN Directed Spray Aerosol is labeled for applications to mattresses, box springs, bed frames and headboards. However, applications to mattresses are best conducted when a bed bug proof mattress encasement will be installed after treatment. While this is not label-required, it is a recommended best practice.

Can NUVAN Directed Spray Aerosol be used with other insecticide products?

NUVAN Directed Spray Aerosol can play a part in a viable and efficacious Integrated Pest Management program, using a number of products and methodologies to assure that troublesome pests are eliminated. Since NUVAN Directed Spray Aerosol is a non-residual product, it is beneficial to use it in combination with suitable residual insecticide products.

Is NUVAN Directed Spray Aerosol effective against cockroaches?

Yes, it is highly effective against cockroaches; even cockroaches reported to be resistant to other classes of insecticide chemistry such as pyrethroids.

Is NUVAN Directed Spray Aerosol effective against fleas and ticks?

Yes, NUVAN Directed Spray Aerosol is highly effective for use against fleas and ticks. Treat localized infested areas including floors, baseboards, door and window frames, pet enclosures, dog runs, kennels, litter box areas and pet bedding areas. Repeat as necessary, but not more than once per month. Place fresh bedding in animal quarters after treatment. Do not allow pets to lie, sleep, or remain in treated areas until spray has dried. Do NOT spray pets or animals directly.

Are there specialized pest instructions included on the NUVAN Directed Spray Aerosol label directions?

Yes, special label directions are on the label for the following pests: Bed Bugs and Bed Bug Eggs, Fleas and Ticks, Ants, Beetles, Cockroaches, Crickets, Millipedes, Silverfish, Spiders, Sowbugs and Waterbugs; Flies, Gnats, Hornets, Bees and Wasps, Stored Product (Pantry) Pests; and Carpet Beetles and Clothes Moth Larvae.

The label states: "Apply a two-second application of product per 4-5 linear feet as a localized application..." How much product is actually applied in this manner?

A two-second spray will deliver approximately 5 grams of product. Note that there are 28.35 grams in each ounce. As such, the 17-ounce aerosol can contains approximately 96 applications. When applied from a distance of fifteen inches, the spray swath will be approximately four inches wide.

Should infested clothing and garments be treated with NUVAN Directed Spray Aerosol?

No. We do not recommend using any insecticide product to treat clothing or garments directly unless it is specifically labeled for that use. Clothing and garments may be rendered bed bug free without the use of pesticides. You must sufficiently run them through a hot clothes dryer and/or hot cycle laundering.



SECTION I: CHEMICAL, EXPOSURE & GENERAL QUESTIONS

What is NUVAN[®] Directed Spray[™] Aerosol?

NUVAN Directed Spray Aerosol is a new spray product that is highly effective against bed bugs, cockroaches and other structural pests.

What is the active ingredient in NUVAN Directed Spray Aerosol?

The active ingredient in NUVAN Directed Spray Aerosol is DDVP. The common name for this active ingredient is dichlorvos — its chemical name is 2,2-dichlorovinyl dimethyl phosphate.

Is DDVP new?

It is not. DDVP was first registered for use more than 50 years ago and enjoys a long history as a successful and efficacious pesticide product. It continues to be used as an important Agricultural and Public Health insecticide product. In the 1960s, it was introduced as a retail product when formulated in pest strips.

Is NUVAN Directed Spray Aerosol sold in the retail (consumer) market?

No, NUVAN Directed Spray Aerosol is not a retail product. It is intended to be sold, used and stored by licensed pest control operators or persons working under their direct supervision only.

How is NUVAN Directed Spray Aerosol packaged?

NUVAN Directed Spray Aerosol is packed in cases of 12, 17-ounce cans.

Wasn't DDVP banned?

DDVP was never banned as a registered product. In fact, it is currently used in agriculture to protect stored products and commodities such as stored grain and food stuffs. Pest strips containing DDVP have remained on the market since first being introduced in the 1960s.

Is NUVAN Directed Spray Aerosol a residual spray product?

No. Despite being a highly effective insecticide, DDVP breaks down quickly and does not have residual activity.

What is the mode of action of NUVAN Directed Spray Aerosol?

The active ingredient in NUVAN Directed Spray Aerosol, DDVP, is an organophosphate insecticide. During normal nerve impulse transmission in insects, an impulse is passed from one neuron to another via a substance called acetylcholine. After the impulse is transmitted, acetylcholine must be broken down to prevent additional impulses from being initiated. The enzyme that allows this breakdown to occur is acetylcholinesterase. DDVP inhibits acetylcholinesterase, allowing acetylcholine to continue to induce impulses, which paralyzes the insect's nervous system and eventually causes death.

Are there any drawbacks to NUVAN Directed Spray Aerosol exposure?

When used in accordance with label directions, NUVAN Directed Spray Aerosol does not pose an unreasonable risk to humans or domestic animals.





Where can NUVAN Directed Spray Aerosol be used?

NUVAN Directed Spray Aerosol may be used in accordance with the label directions in localized areas of homes, commercial buildings, apartments, cabins, garages, basements, factories, hotels, motels, warehouses and other commercial and industrial buildings. Other areas include non-food/feed areas of food/feed processing, food/feed manufacturing and food/feed service establishment sites including garbage rooms, lavatories, floor drains (to sewer), entries and vestibules, offices, locker rooms, mechanical rooms, boiler rooms, garages, mop closets, storage rooms after canning or bottling.

How should NUVAN Directed Spray Aerosol be applied?

Apply a two-second application of product per 4-5 linear feet as a localized application with the spray being applied from a distance of 12-15 inches from the surface being treated. Do not apply as a broadcast treatment or space spray.

NUVAN ProStrips[®] and NUVAN ProStrips[®]+ also contain DDVP and they work by vapor action. Does NUVAN Directed Spray Aerosol also have a vapor action effect?

Yes. NUVAN Directed Spray Aerosol also utilizes vapor action to treat and kill insects present in the immediate treatment area.

Does NUVAN Directed Spray Aerosol stain treated surfaces?

Normally, NUVAN Directed Spray Aerosol will not stain or discolor treated surfaces. However, field results and conditions can vary. When staining and discoloration are a concern, the applicator should conduct a test application on a hidden area of the target surface in question to ensure that staining will not occur.

Is NUVAN Directed Spray Aerosol effective immediately?

Those pests contacted during the application will be killed quickly. Others sufficiently exposed to the treatment will also be killed.

Are there any special precautions that should be considered when using NUVAN Directed Spray Aerosol?

Like all pesticides, NUVAN Directed Spray Aerosol should only be used in accordance with label directions and precautions.

What are some of the specialized label precautions for applicators of NUVAN Directed Spray Aerosol?

Applicators are limited to a maximum of five application sites per day and may only use the product one day per week.

Won't this limitation cause problems with normal work scheduling?

Pest Management Professionals should plan their work accordingly when they intend to apply NUVAN Directed Spray Aerosol.

What are the PPE requirements when using NUVAN Directed Spray Aerosol?

The NUVAN Directed Spray Aerosol label states that applicators and other handlers must wear a long-sleeved shirt, long pants, shoes, socks and chemical-resistant gloves.

Is there a re-entry time period requirement?

As with many pesticide products, keep people and pets out of the area during applications. Only handlers wearing specified PPE may be in the area during application. Do not apply this product in a way that will contact any person or pet either directly or through drift. Do not allow people or pets to enter the treated area until sprays have dried. Do not reoccupy treated areas for at least two hours.

What about ventilation of the treated area?

Ventilation of the treated area is not required. However, if any lingering odor is detected, the applicator should ventilate the treated area.

SECTION II: PEST & APPLICATION QUESTIONS

What pests does NUVAN Directed Spray Aerosol control?

NUVAN Directed Spray Aerosol may be used to control ants, bed bugs, bed bug eggs, bees, beetles, carpet beetles, clothes moth larvae, cockroaches, crickets, fleas, flies, flour beetles, gnats, granary weevils, hornets, millipedes, mosquitoes, moths, silverfish, sowbugs, spiders, stored products (pantry) pests, ticks, wasps, waterbugs and weevils.

Where should NUVAN Directed Spray Aerosol be applied?

NUVAN Directed Spray Aerosol may be applied to areas where pests, such as bed bugs and cockroaches, travel and live.

Is NUVAN Directed Spray Aerosol effective against bed bugs?

Yes. NUVAN Directed Spray Aerosol contains dichlorvos, which is one of the most effective active ingredients to use against bed bugs including pyrethroid-resistant bed bug strains.

How long does it take for NUVAN Directed Spray Aerosol to kill bed bugs?

NUVAN Directed Spray Aerosol can kill bed bugs immediately upon contact and within minutes for those bugs exposed to the areas where the product is applied.

How is NUVAN Directed Spray Aerosol applied for bed bug control?

Apply a two-second application of product per 4-5 linear feet as a localized application with the spray being applied at 12-15 inches from the surface being treated. The spray should be applied directly to bed bugs or to areas where they are known to have been present. Thoroughly inspect and treat areas where bed bugs may hide, travel, live or lay eggs.

Is NUVAN Directed Spray Aerosol effective against bed bug eggs?

Yes, NUVAN Directed Spray Aerosol kills bed bug eggs that are treated on contact and exposed to the vapors of the treatment.

The label states that NUVAN Directed Spray Aerosol is effective against eggs for 14-days. Does this mean that it is a residual treatment?

NUVAN Directed Spray Aerosol is not a residual treatment; meaning eggs must be directly exposed to the treatment to be killed. The eggs or any emerging nymphs will be killed during the two-week period after application.

