



# THE DUST FORMULATION SOLUTION GUIDE

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### THE DUST FORMULATION SOLUTION GUIDE

Interesting dust are classic pest management tools that smart Pest Management Professionals know how to use effectively.

When applied correctly, insecticide dust is often the most effective choice for providing superior control of a
broad range of crawling insects. Dusting is economical and provides excellent penetration into hard-to-reach areas, fast

Bayer offers the industry's leading portfolio of dust solutions designed to help you target a wide range of pests and the harborages they seek. In addition, our Field Development and Technical Service Team is available to provide training on proper dust applications to help you enhance your integrated pest management programs.

An innovative product portfolio and training are just part of our commitment to the industry. Each year, we invest millions of dollars to develop the next generation of responsible treatment options you need in the field. In addition, as stewards of the industry, we're committed to protecting tomorrow today - by providing the best products, delivery systems and training to held you do the same.

"Bayer's insecticide dusts turn pests into dust with quick knackdown and amazing residual" - Gordon Morrison, Macforce" Insecticides Market Manager, Bayer ES



### Integrated Pest Management (IPM)

ner satisfaction, building your business, controlling pests responsibly Integrated pest management is critical to ensuring customer satisfaction, building your busing and enhancing your company's reputation. The five steps of a modern IPM program include:



atment with non-chemical control methods, and when necessary, incorporate the judicious use of pesticides that best fits the environment you're protecting and meets your clients' needs

DUST AT A GLANCE
Before using any posticide, always read and follow label directions.

Application Location	DeltaDust*	Drione*	Tempo" 1% Dust	
Inside/outside residences	V	V	V	
Commercial establishments	V	V	V	
Food-handling areas of commercial establishments	V	V	×	
Animal quarters/ resting areas	V	V	V	
Attics/crawlspaces	V	V	×	
Sewers	V	V	×	
Product is labeled for use in this environment Product is not labeled for this environment				

# **APPLYING DUST**

# DUST INSECTICIDES

Insectibile dusts are ready-to-use formulations that consist of an active ingredient combined with a finely ground, dry carrier.

The particle size in each Bayer dust insecticide is scientifically engineered for ease of application, coverage of treated surfaces, and ontimum absorption by crawling nests

Imagine a fine layer of dust on a surface and how easily the dust particles are picked up by the waxy outer cuticle of an insect, and you will understand why dusts are so effective.

## ADVANTAGES OF BAYER'S DUST FORMULATIONS

- [+] Fast knockdown [+] Long residual
- Superior control on porous surfaces
   Deep, uniform penetration and coverage of voids and hard-to-reach areas.
- Broad spectrum control of a wide variety of pests
   Ready to use, no mixing required
- [ ] Index you do to an incompared to the control of the control of

### WHERE TO APPLY INSECTICIDE DUST

Dust can be applied inside, outside and around the perimeter of a structure. Before using any pesticide, always read and follow label directions.

# Indoors [+] Cracks and crevices

- [+] Pipe chases (Figure 1) [+] Attics
- |-| Attics
  |-| Crawlspaces
  |-| Floor drains that lead to sewers (DeltaDust\* only)
  |-| Motor housings
  |-| Electrical outlets (Figure 2) and junction boxes
- uses and the floor bases (Figure 3)
- [+] Hollow table and equipment legs [+] Animal resting areas







- Untidocrs

  -[-] Cacels around windows and door frames

  -[-] Surchs and omnamental plants (Figure 4)

  -[-] Undermant shiding—expectally where it meets the foundation wall

  -[-] Under docks (Figure 5)

  -[-] Weer hosts (Figure 6)

  -[-] Behind shutters

- •1 Utility entrances for pipes and electrical lines
- [+] Animal quarters and animal resting area







### FOR BETTER ACCESS TO VOIDS

### DUSTING PRECAUTIONS

- +] Avoid breathing in dust +] Avoid getting dust on clothing and skin
- Avoid drift and deposits onto exposed surfaces
  Avoid drafty areas or areas with fans that will displace dust
- +1 Avoid deposits on food preparation surfaces
- [5] Anoto opposing out to meet areas, as most dust formulations will clump and lose effectiveness. DehaBust is the exception, as if is the only waterproof dust available and is specially formulated to work well in both wet and dry areas [-] Do not use doest application equipment in or on electrical equipment, where a possibility of stuck hazard exists.



# **BAYER'S DUST SOLUTIONS**

**DeltaDust®** 

Distribute and desicoant dust approved for use in residences, commercial accounts, food plants and granaries. It provides fast control of ants, cockrandose, and other pests, and will remain effective for up to six menths when left undistructed. Driane features natural pyrethrom plus amorphous sizing off that is produced from sand and erodes the insect cutricial, causing the pest to die form delydration.

Drione'



### DELTADUST\*

DELIABUST is the only 100 percent waterproof dust and will not clump or absorb moisture in wet areas. It is approved for use in commercial food-bandling establishments, making it an ideal tool for eliminating peets in wet areas of these accounts. DeltaBust is also labeled for application directly into drains that lead to sewers, a common place to find cockroaches, phord files and other peets. Labeled for use indoors and outdoors, DetaDust is non-staining and odorless. With the active ingredient deltamethrin DeltaDust will remain effective for up to eight months.

In food-handling environments of commercial establishments, DeltaDust applications are permitted in both food and non-food areas and may be applied as a spot or crask and creacine treatment when the facility is in operation, provided exposed food is covered and/or removed prior to application.

For shrubs and ornamental plants, apply 8 ounces of dust per 1,000 square feet. Dust should be applied in a thin layer to the upper and lower side of leaves.

For perimeter applications, treat in and around areas where pests may enter the structure and against the foundation wall. DeltaDust can also be applied to the surrounding area near the structure and is very effective when applied to landscape plants.

Application rate: Apply 2 to 3 grams of DeltaDust per square yard (or 0.5 gounds per 1,000 square feet).

TEMPO" 1½ DUST
Tempo 1% Dust is a ready-to-use dust that centains one percent cylithrins and is supecisly effective
against beas and wrouge, antic, codorauches and other crawling pests. Labeled for use indoors and
contions. Them 1% that provides a long residual, is low-offer and use-chaining, in communical
front-handling establishments, apply limpus 1% Dust only to non-food areas. If left undisturbed,
Tempo 1% Dust will remain active for up to our year.

Packaging: Tempo 1% Dust is available in a 1.25-pound applicator bottle.

Application rate: Apply 0.5 pounds to 1 pound of Tempo 1% Dust per 1,000 square feet.





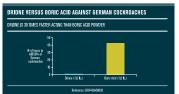
Packaging: Drione is available in a 1-pound applicator bottle and

Drinne is an excellent flushing tool that is ideal for pinyointing infestations in hard-te-reach areas. Simply apply the dust into cracks, crevices and voids where pests may like. Any pasts that are present will un from the treated area, but they won't get for due to Drinne's fast Isockdown. And with Drinne's long residual, pests will not be able to re-infest the breated area for up to its months, saving you time on future visits.

DRIONE"

In food-handling environments of commercial establishments, limit applications of Drione to cracks and crevices.

Application rate: Apply 2 ounces of Drione per 100 square feet of surface area (or approximately 0.5 grams per square foot). For heavy infestations, apply 16 ounces per 1,000 square feet.



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### **DUSTING RECOMMENDATIONS**

### Dusting Recommendations

- Deciracións.

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   Violando de comparación de la comparación del
- 1-) towers in the dest Concess when imagesting for conformation, do so in the forestiment and funding action. Driver of another that is qualified under all in based areas.

  1) Imagesting the control of the control of

[+] Indoors and outdoors, apply dust to ant nests, trails, travel routes and places where ants enter structures.

- Companies Andre.

  1 Supple date to companie and month, trails, traind results, valids and places where component ands enter structures.

  1 Substituta works best in down prime where these enter prefer to met.

  2 Definition works best in down prime where these enter prefer to met.

  2 Definition the substitution of choice for companies in supportion. It was posteroide hard-to-reach awars, flush ants and quickly greater parts project in control.

  C. Carpenter and these disens disentations for food and waters, as inspect trees, ntumps, landscape fembers, wood piles and similar areas around the structure.

Squeezs

(F) Spiders can be difficult to control because they travel along surfaces or webs, and their bodies have very little contact
with the substrate. Dust, however, is particularly effective against spiders because the light particles are not absorbed
into surfaces and are readily available to be picked up by these elusive peets. Apply dust behind basebards, to window
and door frames, athics, cranksparces and other places spiders crank.

- Bees and Wasps

  [-] Use limps the fact for fast look-down of bees and wasps. The high percentage of active ingredient in this formulation watch quickly, and the residual wild control immutive stapes? They emerge.

  [-] Thouspylly best tests, their estimators and unremarking seas where pents slight.

  [-] Old holds are wiseld removary the test sent in extension of the sent less preferred, however, when treatment is made during the disp, returning waters will entire the next and the controlled quickly.

- Bed Bugs | Jupply dust to areas where bed bugs are frund such as cracks, crevices, vaids and bed frames. Be thorough! Inspect and treat thit and fields of multi-sease and spring colls.

  [-] Let prouder remain in place for 4 to 6 hours and vacuum the preview framework, dispose of the vacuum bug properly and place lection liness on the bed. Removing parts of the cambric at the bottom of loss gripping will provide better access.

- [+] Outdoors, apply dust around structural entry points such as doors, windows and utility entrances, as well as under siding
- and decks. DeltaDust is labeled for use as a perimeter treatment around structures and to ornamental plants.
  [\*] Indoors, apply dust behind baseboards, to window and door frames, attics, crawlspaces and other places pests crawl.

Stored Product Pests
[\*] Apply dust as a crack and crevice treatment and in difficult-to-reach areas where stored product pests hide. Be sure to prevent contamination of food and food preparation areas.

### DUST APPLICATION EQUIPMENT

Equipment Options

No matter where you choose to apply dust, there is a variety of equipment options available to help you make effective applications.

### Small Handhold Duetore

- Larger Two-Handed Dust Applicators
  These dusters hold a higher volume of dust, come with a variety of extensions and tips and can be adjusted to deliver various amounts of dust insecticide.
  [\*] B&G 1151-M Mini Dust-R
  [\*] B&G 1152-A Hand Dust-R

### Electric/Power Dusters

- Power dusters help increase the electrostatic charge of the dust while it is being applied. This static electricity helps the dust adhere to vertical surfaces in voids for better distribution.
- [+] B&G 2250 Electric Dust-R
- [+] Gremar Power Puff Duster
- F+1 Exacticide Buster









## THE ART OF EFFECTIVE DUSTING

When applied properly, dust insecticides may provide a residual of up to one year if harborages are left undisturbed. This long residual will save you time on the jeb during future visits, as pests will not be able to inhabit treated areas and re-treatment will not be necessary for long. periods of time.

### **Dusting Tips**

Effective dusting takes practice and experience to develop a "feel" for applying the correct amount of material when using handheld equipment. The applicator tip is often inserted into a crack or void so you can't see exactly how much dust is dispensed. Here are some application tips that will help you to apply dust more effectively.

- [+] Examine the applicator and pay special attention to the placement of the pickup tube inside the applicator.
- Com starch is a great material for demonstrating and practicing dust applications.
   Fill Bandheld dusters that are squeezed approximately half full, leaving room to more easily compress the applicator.
   The might eff the duster and the strength exerted whom making an application will affect the amount of dust that

- () The upper of the duster and the strength exerted when making an application will affect the amount of dust that is dispersed.
  () Practice in an argue area maticle with the applicator positioned at different angles on you can see how much dust create on ().
  () Practice is in an argue area maticle with the applicator propriets and when to much dust trathers not of the applicator to replace the propriets that the area of the applicator in medicality prior to treatment will help create a close of dust in the arqueous of the applicator and the place has all partial particle prior the prior the applicator and the place has a performed and the place area the place has a performed and the place area the place and place and the place and

- | Adding an extension tip or hose to dust equipment may allow for easier treatment of hard-to-reach areas. |
  | Adding an extension tip or hose to dust equipment may allow for easier treatment of hard-to-reach areas. |
  | The Dustrick provides an extension up to 20 feet for treating hard-to-reach bee and wasp nests. |
  | Dustric can be used in combination with other formulations such as bait gels, stations, granules, and liquid sprays. Do not apply dust directly on too of bait placements.
- (\*) A long-landed, narrow soop or spoon and a funnel are helpful when filling dust applicators.

  [\*] Store dusts in their original containers, keeping them sealed, as many dust formulations readily absorb moisture, which
- will make them more difficult to apply.

  [\*] Zip top plastic bags are good for storing small handheld dusting equipment when not in use.

