



# You have a new ally in the fight against flies

**Alpine® WSG**  
Water Soluble Granule Insecticide

Flies carry disease, and could potentially affect your bottom line. Fortunately, BASF has a new solution. **Alpine® WSG** Water Soluble Granule insecticide knocks down more than 70% of flies in just 30 seconds, and 100% of flies within 15 minutes.

To help manage resistance, include this insecticide in your rotational spray program.\* Its active ingredient, dinotefuran, has been granted Reduced Risk status by the EPA, both for use in public health and food-handling establishments.

**Alpine WSG** Water Soluble Granule insecticide provides a fast and reduced risk fly program that kills flies in one day. Now, your farm has a powerful new ally in the fight against flies.

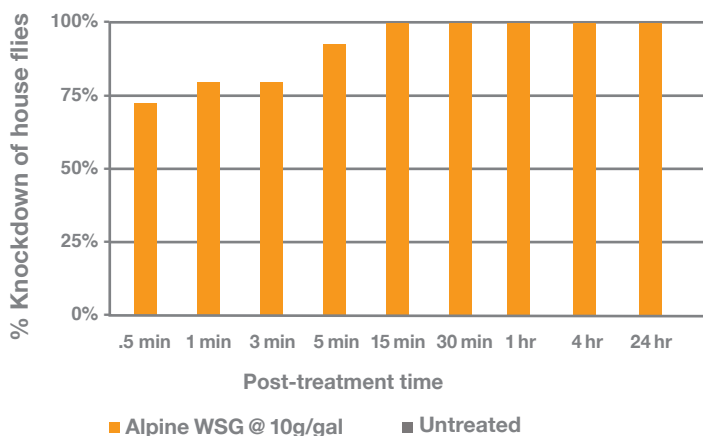
- **Fast-Acting:** This insecticide kills flies and knocks them down quickly.
- **Reduced Risk:** Less toxic to birds and mammals, the active ingredient has been granted Reduced Risk status by the EPA.

*\*Do not treat in areas where animals are present.*

**BASF**  
We create chemistry

## The fast-acting insecticide that kills 100% of flies in 24 hours

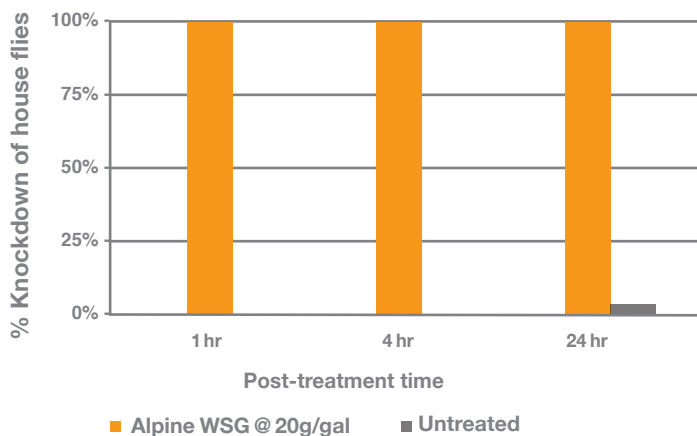
### House Flies - % knockdown (direct spray)



Bio Research, 1738 N. Fowler Avenue, Fresno, CA 93727

- Alpine® WSG Water Soluble Granule insecticide knocks down 100% of flies within 15 minutes (direct spray) and kills 100% of flies in 24 hours.

### House Flies - % knockdown post exposure to tile substrate (residual)



Bio Research, 1738 N. Fowler Avenue, Fresno, CA 93727

- Alpine WSG Water Soluble Granule insecticide knocks down 100% of flies within 1 hour (residual) and kills 100% of flies in 24 hours.

## Reduced risk fly program that's virtually non-toxic to birds and mammals

### Less toxic to birds

AI	Bird oral LD50 (mg/kg bw)	EPA toxicity category based on LD50	Bird dietary LC50 (mg/kg diet)	EPA toxicity category based on LC50
Dinotefuran	> 2000	practically non-toxic	> 5000	practically non-toxic
Imidacloprid	152.3 (bobwhite quail)	moderately toxic	1536 (bobwhite quail)	slightly to practically non-toxic

NOTE: the higher the LD50 or LC50, the safer the product  
 Toxicity Sources: EPA-HQ-OPP-2011-0920-0005 (dinotefuran)  
 EPA-HQ-OPP-2008-0844-0003 (imidacloprid)

- On an acute basis, dinotefuran remains practically non-toxic to birds, compared to imidacloprid (moderately toxic).
- EPA categorizes dinotefuran as practically non-toxic to birds exposed via the dietary route, compared to imidacloprid (slightly to practically non-toxic).

### Less toxic to mammals

AI	Rat oral LD50 (mg/kg bw)	EPA toxicity category based on LD50
Dinotefuran	2000	slightly to practically non-toxic
Imidacloprid	424	moderately toxic

NOTE: the higher the LD50, the safer the product  
 Toxicity Sources: EPA-HQ-OPP-2011-0920-0005 (dinotefuran)  
 EPA-HQ-OPP-2008-0844-0003 (imidacloprid)

- On an acute basis, EPA categorizes dinotefuran as slightly to practically non-toxic to mammals, compared to imidacloprid (moderately toxic).

For a fast, effective and reduced risk fly program, rely on **Alpine WSG** Water Soluble Granule insecticide as part of your Integrated Pest Management solution. To learn more, visit [pestcontrol.basf.us](http://pestcontrol.basf.us)