

# **GRAPES - SOIL APPLICATION**

## General Information

### GENERAL INFORMATION

Clutch 50 WDG Insecticide<sup>1</sup> is a broad spectrum insect control product, for control of a wide spectrum of insects infesting apples, grapes and pears. When applied as directed, Clutch 50 WDG provides excellent and long residual insect control.

### RESISTANCE MANAGEMENT

Clutch 50 WDG contains a Group 4A2 insecticide. Insect biotypes with acquired resistance to Group 4A2 may eventually dominate the insect population if Group 4A2 insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Clutch 50 WDG or other Group 4A2.

To delay insecticide resistance in insects that are at risk of developing resistance to insecticides consider:

- Avoiding the consecutive use of other Group 4A2 insecticides that have a similar target site-of-action, on the same insect species.
- Using tank-mixture or premixes with insecticides from a different target site-of-action Group as long as the involved products are all registered for the same use and have different sites-of-action.
- Basing insecticide use on a comprehensive IPM program.
- Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report a suspected resistance, you may contact Valent U.S.A. Corporation at 1-800-682-5368.

## PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not Clutch 50 WDG can be used safely on all species and cultivars of plants. Clutch 50 WDG has been tested on many cultivars with no phytotoxicity observed at label rates. Since all plant species and their varieties and cultivars have not been tested for tolerance, it is recommended that a small number of plants be sprayed to make certain that no phytotoxicity occurs, prior to any large scale application to plants. The end user assumes all risks arising from application of Clutch 50 WDG in a manner inconsistent with its labeling.

## GENERAL RESTRICTIONS AND LIMITATIONS FOR AGRICULTURAL USES

- DO NOT use a foliar application of clothianidin (Clutch 50 WDG) following an in-furrow or soil application of clothianidin (Belay 16 WSG).
- Regardless of formulation or type of application (soil or foliar) DO NOT apply more than a total of 0.2 lbs active ingredient, clothianidin per acre per season for all crops.
- If the maximum season limit of clothianidin as mentioned above has been applied and pest populations require additional treatments, use another registered pesticide that is not in the neonicotinoid class of chemistry.
- Do not apply by air.

### Limitations, Restrictions, and Exceptions

Clutch 50 WDG should be applied when threshold populations are observed. Do not wait until large insect populations have been established. Apply specified rate in sufficient carrier volume to insure uniform application and incorporate into the soil using drip or trickle irrigation water.

For Mealybug control, apply between bud break and pea-berry size.

- Do not apply more than one (1) application of Clutch 50 WDG.
- Do not apply treatments more often than every fourteen (14) days

For suppression of phylloxera grape and vine mealybug.

Method

[Soil incorporation](#)

Pre-Harvest Interval

30 days

Rates

[field rates 0](#)

[field rates 1](#)

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Restricted Entry Interval

12 hours

Timings

[when threshold populations are observed](#)