



CLUTCH[®]

50 WDG INSECTICIDE¹

FOR USE ON APPLE, GRAPES AND PEAR

Ingredients	By Wt.
Active Ingredient	
* Clothianidin.....	50%
Inert Ingredients.....	50%
Total	100%

* (E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine

EPA Reg. No. 59639-152
 EPA Est. 39578-TX-01^(E), 67545-AZ-01^(G)
 Superscript is first letter in lot number

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID	
If in eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed:	Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If inhaled:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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FIRST AID (Continued)
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: CALL 1-800-892-0099

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride (PVC).

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS
Users should: <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. • Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Do not apply when weather conditions favor drift from treated areas. Drift and runoff may be hazardous to

aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

This product is toxic to bees exposed to treatment and for more than 5 days following treatment. Do not apply this product to blooming, pollen-shedding, or nectar-producing parts of plants if bees may forage on plants during this time period, unless the application is made in response to a public health emergency declared by appropriate state or federal authorities.

DRIFT MANAGEMENT

Do not allow this product to drift onto neighboring crops or non-crop areas or use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Where states have more stringent regulations, they should be observed.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Carefully read and understand the Directions for Use and restrictions before applying this product.

Do not apply this product in any way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USES

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions on this label about personal protective equipment (PPE), notification to workers and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during restricted entry interval (REI) of 12 hours.

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AGRICULTURAL USE REQUIREMENTS, Continued

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, socks, shoes, chemical-resistant gloves made of any water proof material.

GENERAL INFORMATION

Clutch® 50 WDG Insecticide¹ 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.

²Not all members of this class have been shown to be cross-resistant. Different resistance mechanisms that are not linked to target site of action, such as enhanced metabolism, are common for this group of chemicals. Alternation of compounds from different sub-groups within this class may be an acceptable part of an integrated pest management program.

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.

COMPATIBILITY OF MIXTURES

To obtain broad-spectrum pest control, *Clutch* 50 WDG can be tank mixed with other pesticides. However, all plant species and their varieties and cultivars have not been tested with possible tank mix combinations, sequential pesticide treatments and adjuvants and surfactants. The user should conduct a spray mix compatibility and phytotoxicity trial under local conditions to ensure compatibility prior to any large-scale use.

PREPARATION OF SPRAY SOLUTION

Begin with clean equipment. Add sufficient clean water to the spray tank for one-half of the mix load. Start tank agitation. Add and properly suspend the necessary amount of *Clutch* 50 WDG before adding any other products. Agitate to ensure thorough mixing while adding the remaining required water. Maintain agitation during mixing and application. DO NOT allow the spray mixture to stand without agitation. Apply with properly calibrated spray equipment. If agitation is stopped for any reason, the spray solution must be thoroughly re-mixed prior to any further use.

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.

APPLES AND PEARS (AGRICULTURAL)

Clutch 50 WDG should be applied when threshold populations are observed. Do not wait until large insect populations have been established. Apply *Clutch* 50 WDG in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for optimum control. To achieve optimum coverage, use proper spray pressures, nozzles, nozzle spacing, and water volume per acre.

APPLES (Post-bloom Applications)	
PEST	APPLICATION RATE
Aphids Leafhoppers	2 to 3 oz of product per acre (1 to 1.5 oz ai/A)
Plum curculio Apple maggot Leafminers	3 oz of product per acre (1.5 oz ai/A)
Oriental fruit moth Leafrollers (suppression)	3 to 6 oz of product per acre (1.5 to 3 oz ai/A) ¹

¹ To control Oriental fruit moth, apply *Clutch* 50 WDG in a program of rotational sprays with other labeled insecticides. When using the 3 oz rate of *Clutch* 50 WDG to control Oriental fruit moth, do not apply treatments less than a 14 day interval.

PEARS (Post-bloom Applications)	
PEST	APPLICATION RATE
Aphids	2 to 3 oz of product per acre (1 to 1.5 oz ai/A)
Leafrollers (suppression) Obliquebanded Leafminers Spotted tentiform Western tentiform	3 oz of product per acre (1.5 oz ai/A)
Pear psylla	4 to 6 oz of product per acre (2 to 3 oz ai/A)

SPECIAL INSTRUCTIONS AND RESTRICTIONS FOR APPLE AND PEARS

- The amount of *Clutch* 50 WDG per acre will depend on tree size and pest pressure. Choose lower rates for light infestations and/or small trees and the higher rates for heavy infestations and/or larger trees.
- Apply by ground in 100 to 400 gallons per acre as a full coverage spray. Spray volume will depend on tree size and density of canopy. Applications may also be made as a concentrate spray. Maintain the same amount of product per acre as a dilute application using the appropriate amount of concentrate spray volume. Repeat applications as needed to maintain control but do not apply more often than every 10 days.
- For optimum control of Leafminers and Leafrollers, make the first application as soon as pollination is complete and bees are removed from the orchard. Repeat application as necessary to maintain control. A single application may result in suppression only.
- Do not apply more than 6.4 oz of *Clutch* 50 WDG (0.2 lb active ingredient) per acre per season.

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SPECIAL INSTRUCTIONS AND RESTRICTIONS FOR APPLE AND PEARS, Continued

- Do not apply treatments less than 10 days apart.
- Do not apply within 7 days of harvest.
- Do not feed or allow livestock to graze on cover crops from treated orchards.
- Do not apply *Clutch* 50 WDG through any type of irrigation system.

GRAPE		
APPLICATION METHOD	PEST	RATE
Foliar	Grape leafhopper Skeletonizers	1 - 2 oz of product/A (0.5 - 1 oz ai/A)
	Grape mealybug Sharpshooters	2 - 3 oz of product/A (1 - 1.5 oz ai/A)
	Grape berry moth Japanese beetle	3 oz of product/A (1.5 oz ai/A)

SPECIAL INSTRUCTIONS AND LIMITATIONS:

- Maximum number of applications: 2
- Pre-harvest interval: 0 days
- Application interval: 14 days
- Do not apply *Clutch* 50 WDG following *Belay* 16 WSG soil application. Apply as soon as pest populations begin to build.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a dry place away from excessive heat. Do not store near food or feed. Store in original container only. To close package, replace and tighten cap to form an airtight seal.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or (if allowed by State and local authorities) by burning. If burned, stay out of smoke.

CONDITIONS OF SALE

1. Valent U.S.A. Corporation ("Valent") warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use.



For state registration and/or supplemental labels, please call or visit us online.

Products That Work, From People Who Care® | www.valent.com | 800-6-VALENT (682-5368)

Read and follow the label instructions before using.

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2. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Valent. **VALENT DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM OR IN CONNECTION WITH THE MANUFACTURE, SALE, DELIVERY, USE, HANDLING OR STORAGE OF THIS PRODUCT. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SELLER'S LIABILITY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. VALENT DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.**

3. Critical and unforeseeable factors beyond the control of Valent prevent Valent from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which the product is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the use stated on the label and even though label directions are followed. Except as stated in 1. above, to the extent permitted by applicable law, Buyer and User acknowledge and assume all risks and liabilities resulting from handling, storage, and use of this product.

Distributed by
Valent U.S.A. Corporation
P.O. Box 8025
Walnut Creek CA 94596-8025
Form 1664-A Made in U.S.A.

EPA Reg. No. 59639-152
EPA Est. 39578-TX-01^(E), 67545-AZ-01^(G)
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Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status.