

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



ACTIVE CONSTITUENT: 200 g/kg DINOTEFURAN

GROUP 4A INSECTICIDE

For the control of silverleaf whitefly, green mirid and green vegetable bug on cotton and green mirids on mung beans as per the Directions for Use table.

AgNova Technologies Pty Ltd
ABN 70 097 705 158
Suite 3, 935 Station Street
Box Hill North, Vic. 3129 Australia
Phone (03) 9899 8100
agnova.com.au



Net Contents 2 kg and 5 kg

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply more than 2 applications per crop.

DO NOT reapply within 14 days of a previous DINOTEFURAN (Starkle) application.

DO NOT apply where the slope exceeds 4%.

SPRAY DRIFT RESTRAINTS

DO NOT apply with spray droplets smaller than a MEDIUM spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the British Crop Production Council guideline.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour, as measured at the application site.

DO NOT apply during surface temperature inversion conditions at the application site.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application and **KEEP** this record for at least 2 years. The spray application details that must be recorded are:

1. date with start and finish times of application;
2. location address and paddock/s sprayed;
3. full name of this product;
4. amount of product used per hectare and number of hectares applied to;
5. crop/situation and weed/pest;
6. wind speed and direction during application;
7. air temperature and relative humidity during application;
8. nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application;
9. name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used.)

MANDATORY NO-SPRAY ZONES

DO NOT apply if there are aquatic and wetland areas, including aquaculture ponds, surface streams and rivers located downwind from the application area and within the **mandatory no-spray zones** shown in Table A.

Table A – No-Spray Zones for Protection of the Aquatic Environment	
FOR AERIAL APPLICATION	
Wind Speed Range at Time of Application	Downwind Mandatory No-Spray Zone
	Fixed-Wing
From 3 to 8 kilometres per hour	80 m
From 8 to 14 kilometres per hour	
From 14 to 20 kilometres per hour	
FOR GROUND APPLICATION	
From 3 to 20 kilometres per hour	5 m

CROP	PEST	RATE	CRITICAL COMMENTS
Cotton	Green mirid (<i>Creontiades dilutus</i>)	90 g/ha	Monitor crops following industry best practice guidelines and commence applications once local thresholds are reached. Use appropriate rate for the insect pest being targeted for control. Ensure thorough spray coverage of the crop. Inadequate spray coverage may result in reduced pest control, especially in the lower crop canopy and against established populations.
	Silverleaf whitefly (<i>Bemisia tabaci</i>)	250 g to 375 g/ha	Insect death may take several days following ingestion. Pest control should be assessed initially by a reduction in pest activity. Performance can be reduced in stressed crops (e.g. drought affected dryland cotton), or when senescing late season or when pests are not actively feeding in the upper crop canopy. Continue to monitor crops following industry best practice guidelines and make a subsequent application as necessary. Use in accordance with the current Insecticide Resistance Management Strategies. Silverleaf whitefly:
	Green vegetable bug (<i>Nezara viridula</i>)	375 g/ha	Use the higher rate when longer residual control is required or during periods of high pest pressure or rapid crop growth or when crops are well advanced. Using STARKLE on established silverleaf whitefly populations after canopy closure may result in variable insect control, especially in the lower canopy. When both green mirids and silverleaf whitefly are present and silverleaf whitefly is at or above industry spray thresholds, use the appropriate silverleaf whitefly rate.
Mung beans	Green mirid (<i>Creontiades dilutus</i>)	90 g/ha	Monitor crops and commence applications once local thresholds are reached. Ensure thorough spray coverage of the target. Inadequate spray coverage may result in reduced pest control, especially in the lower crop canopy and against established populations. Performance can be reduced in stressed crops. Continue to monitor crops and make a subsequent application as necessary.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS

Cotton, Mung beans:

Harvest: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

Mung Beans:

Grazing: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.

Cotton:

Grazing: DO NOT GRAZE TREATED COTTON CROPS OR CUT FOR STOCKFEED. DO NOT FEED COTTON TRASH TO LIVESTOCK.

EXPORT TRADE ADVICE—TREATED CROPS: Treated crop commodities destined for export may require extra time between application and harvest to be accepted in some export markets. Before you use this product, you are advised to contact AgNova Technologies and/or your industry body about any potential trade issues and their management.

GENERAL INSTRUCTIONS

MIXING/APPLICATION

Mixing

Partially fill the spray tank with clean water and add the required quantity of product to the water surface. Allow the product to submerge before agitating. Top up the tank with clean water to the required volume.

Application

Thorough coverage of the crop is essential. The minimum water application volumes below are indicative only and depending on the crop stage, canopy density, target pest location in the crop and weather conditions, the application volume must be increased to achieve optimal coverage. Application equipment should be calibrated to deliver a MEDIUM spray droplet size according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the British Crop Production Council guideline.

It is important to ensure that spray application occurs when parameters are optimal. Application should take into account factors including temperature, relative humidity, delta T and wind speed. Avoid conditions that will reduce the quality of spray coverage. Spraying in less than optimal conditions or with greater than MEDIUM spray droplet size may reduce the efficacy of the product.

DO NOT apply during surface temperature inversion conditions at the application site.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour.

Ground Rig Application

Apply in a minimum spray volume of 80 L/ha water. Apply as a blanket spray or banded spray ensuring thorough coverage is achieved.

Aerial Application

Apply in a minimum spray volume of 30 L/ha water. Use appropriate water volume to achieve thorough coverage. A strategy to minimise spray drift should be employed at all times when aerially applying sprays. Such a strategy is illustrated by the cotton industry's myBMP.

INSECTICIDE RESISTANCE WARNING



For insecticide resistance management STARKLE is a Group 4A insecticide. Some naturally occurring insect biotypes resistant to STARKLE and other Group 4A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if STARKLE or other Group 4A insecticides are used repeatedly. The effectiveness of STARKLE on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, AgNova Technologies Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant insects. STARKLE may be subject to specific resistance management strategies. For further information contact your local supplier, AgNova Technologies Pty Ltd representative or local agricultural department agronomist.

PRECAUTIONS

RE-ENTRY PERIOD

DO NOT allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or water courses with this product or used containers.

PROTECTION OF HONEYBEES AND OTHER INSECT POLLINATORS

Highly toxic to bees and will kill bees foraging in a treated crop or in hives which are accidentally sprayed or contaminated by spray drift. Spray residues remain toxic to bees for 2-3 days after application. To protect long term viability of beehives, remove or cover beehives during application and for 5 days after treatment.

DO NOT allow spray to drift to flowering weeds or flowering crops in the vicinity of the treatment area. Before spraying notify beekeepers who are known to have hives in or nearby the area to be sprayed, to move hives to a safe location if there is potential for managed hives to be affected by the spray or spray drift.

INTEGRATED PEST MANAGEMENT

Toxic to beneficial arthropods. Follow the Cotton Pest Management Guide when using this product. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.

STORAGE & DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

SAFETY DIRECTIONS

Will irritate the eyes. Will irritate the skin. Avoid contact with eyes and skin. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), chemical resistant gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre.
Phone Australia 13 11 26.

SAFETY DATA SHEET

If additional hazard information is required refer to the Safety Data Sheet.
For a copy visit our website at agnova.com.au

CONDITIONS OF SALE

AgNova Technologies Pty Ltd shall not be liable for any consequential or other loss or damage relating to the supply or subsequent handling or use of this product, unless such liability by law cannot be lawfully excluded or limited. All warranties, conditions or rights implied by statute or other law which may be lawfully excluded are so excluded. Where the liability of AgNova Technologies Pty Ltd for breach of any such statutory warranties and conditions cannot be lawfully excluded but may be limited to it re-supplying the product or an equivalent product, or the cost of a product or an equivalent product, then the liability of AgNova Technologies Pty Ltd for any breach of such statutory warranty or condition is so limited.

® Registered trademark of Mitsui Chemicals Agro, Inc.

APVMA Approval No: 69398/113017

This label requires no additional statements in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

In a transport emergency dial 000, Police or Fire Brigade.
For specialist advice in an emergency only, call 1800 033 111 (24 hours).

AgNova Technologies Pty Ltd

ABN 70 097 705 158
Suite 3, 935 Station Street
Box Hill North, Vic. 3129
Phone (03) 9899 8100
agnova.com.au

