

STORAGE AND DISPOSAL

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

All Pack Sizes unless otherwise stated

Triple-rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemical 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 for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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. **DO NOT** re-use empty container for any other purpose.

SAFETY DIRECTIONS

Poisonous if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container, preparing the spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use wash gloves and face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre (*Phone Australia 13 11 26; New Zealand 0800 764 766*). If swallowed, do NOT induce vomiting. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes wash out immediately with water.

WARNING: NOT FOR THERAPEUTIC USE

Refer to attached Leaflet for additional GHS Hazard & Precautionary Statements

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from your supplier or Imtrade Australia Pty Ltd website www.imtrade.com.au.

CONDITIONS OF SALE

Imtrade CropScience warrants that this product conforms to the chemical description on the label. The use of VADER 225 VeripHy® being beyond the control of the manufacturer, Imtrade CropScience shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Imtrade's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Imtrade CropScience has any authority to add to or alter these conditions.

VeripHy® is a Registered Trademark of Imtrade Australia Pty Ltd

VeripHy®

POISON

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Imtrade

Vader

225 VeripHy® SL Insecticide

ACTIVE CONSTITUENT: 225 g/L ACETAMIPRID
SOLVENTS: 513 g/L DIMETHYL SULFOXIDE
334 g/L N-METHYL PYRROLIDONE

GROUP **4A** INSECTICIDE

For the control of Cotton Aphid and Green Mirids in Cotton and Green Peach
Aphid in Potatoes as specified in the Directions for Use table

IMPORTANT: Read the attached Leaflet before use.

FORM
SL

CONTENTS
1L-100L

UN 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (contains ACETAMIPRID)
	In a Transport Emergency Dial 000 Police or Fire Brigade
PG II	HAZCHEM *3Z



APVMA Approval No: 93884/140787



Batch No.
DOM:

IMTRADE
CropScience

17 Ocean St, Kwinana Beach WA 6167
08 9419 0333 | www.imtrade.com.au

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For the control of Cotton Aphid and Green Mirids in Cotton and Green Peach Aphid in Potatoes as specified in the Directions for Use table.

**IMPORTANT: READ THIS LEAFLET THOROUGHLY
BEFORE OPENING OR USING THIS PRODUCT**

APVMA Approval No: 93884/140787

Imtrade Australia Pty Ltd
ABN 13 090 151 134
17 Ocean Street, Kwinana WA 6167
Tel: 1800 171 799 Fax: 1800 171 788
Web: www.imtrade.com.au

RESTRAINTS:

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at www.apvma.gov.au/spraydrift

- **DO NOT** allow **bystanders** to come into contact with the spray cloud.
- **DO NOT** apply in a manner that may cause an unacceptable impact to **native vegetation, agricultural crops, landscaped gardens** and **aquaculture production**, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone tables below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.
- **DO NOT** apply unless **wind speed** is between 3 and 20 kilometres per hour at the application site during the time of application/
- **DO NOT** apply if there are **hazardous surface temperature inversion** conditions present at the **application site** during the time of application. **Surface temperature inversion conditions** exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

BOOM SPRAYERS

- **DO NOT** apply by a boom sprayer unless the following requirements are met:
 - Spray droplets are not smaller than a **MEDIUM** spray droplet size category.
 - Minimum distances between the **application site** and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'MANDATORY BUFFER ZONES') are observed.

Buffer zones for boom sprayers

Application rate	Mandatory downwind buffer zones
	Livestock areas
Up to maximum label rate	100 metres

AIRCRAFT

- **DO NOT** apply by aircraft unless the following requirements are met:
 - Spray droplets not smaller than a **MEDIUM** spray droplet size category.
 - For maximum release height above the target canopy of 3 metres or 25% of wingspan or 25% of rotor diameter, whichever is the greatest, minimum distances between the application site and downwind sensitive areas are observed (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for aircraft').

Buffer zones for aircraft

Application rate	Mandatory downwind buffer zones
	Livestock areas
Fixed wing	100 metres
Helicopter	100 metres

DIRECTIONS FOR USE:

CROP	PEST	STATE	RATE	Critical Comments
Cotton	Cotton Aphid (<i>Aphis gossypii</i>)	Qld, NSW, WA, NT only	50-100 mL/ha + 0.2% v/v organosilicone penetrant	Use the high rate under sustained heavy Aphid pressure. If repeat applications are required, alternate with products from a different insecticide group (refer to Cotton Aphid Resistance Management under General Instructions). DO NOT apply more than 2 sprays per crop per season.
	Green Mirid (<i>Creontiades dilutus</i>)		100 mL/ha + 0.2% v/v organosilicone penetrant	Target nymphs and/or adults when they reach the economic spray threshold. On above threshold AND increasing Green Mirid populations, suppression only may be observed.
Potatoes	Green Peach Aphid (<i>Myzus persicae</i>)	All States	200 mL/ha	Apply as a foliar spray when infestations reach a treatment (or economic) threshold. If repeat applications are required, alternate with products from a different insecticide group (refer to Green Peach Aphid Resistance Management under General Instructions). DO NOT apply more than 3 sprays per crop per season. It is recommended that VADER 225 VeripHy® be applied with a non-ionic wetter. Check manufacturer's directions for the appropriate use rate in horticultural crops.

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

WITHHOLDING PERIODS

HARVEST

***COTTON: DO NOT HARVEST FOR 10 DAYS AFTER APPLICATION.
POTATOES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.***

GRAZING

***COTTON: DO NOT GRAZE OR CUT FOR STOCK FOOD.
POTATOES: DO NOT GRAZE OR CUT FOR STOCK FOOD.***

GENERAL INSTRUCTIONS

MIXING

Add a few mLs of VADER 225 VeripHy® to a sample of water to be used in the spray solution preparation and mix thoroughly.

If a yellow colouring is exhibited, this signals that the spray solution is weakly acidic to neutral ($4 < \text{pH} < 7$) and hydrolysis is not a threat with no further action needed. Progress directly to spray solution preparation at full scale.

If a green colouring is exhibited, this signals that the spray solution is alkaline ($\text{pH} > 7$) and alkaline hydrolysis is a threat. The spray tank dilution water requires treatment with an acidifying agent. Imtrade Pro 700 Surfactant (APVMA Product No. 64260) or an equivalent product should be added in line with label directions to reduce the pH a preferred level and preserve Acetamiprid. After acidification retest the dilution water by adding a few mLs of VADER 225 VeripHy® and only progress to spray solution preparation at full scale when a yellow colouring is exhibited.

If an orange colouring is exhibited, this signals that the spray solution is strongly acidic ($\text{pH} < 4$) and acidic hydrolysis is a threat. The spray tank dilution water requires treatment with an alkalisng agent. Caustic soda, ammonia solution, lime or another base should be added in line with label directions to increase the pH to a preferred level and preserve Acetamiprid. After alkaisation, retest the spray solution by adding a few mLs of VADER 225 VeripHy® and only progress to spray solution preparation at full scale when a yellow colouring is exhibited.

Fill spray tank $\frac{1}{4}$ to $\frac{1}{2}$ full of water. Start agitation (using mechanical or hydraulic means. NOT air agitation), add required quantity of VADER 225 VeripHy® and continue filling with water. Add non-ionic wetting agents as recommended previously. Continue agitation for several minutes prior to spraying to ensure thorough mixing.

APPLICATION

Cotton

Ground Application: Ensure thorough coverage of foliage. This will require a water volume of at least 50L/ha

Aerial Application: Ensure thorough coverage of foliage. This will require a water volume of at least 20-30L/ha.

Potatoes

Apply by ground or aerial application methods in sufficient water to ensure thorough coverage of infested foliage.

COMPATABILITY

VADER 225 VeripHy® is compatible with mepiquat chloride, thidiazuron (\pm diuron).

VeripHy® Colour Indication

Acetamiprid is subject to alkaline hydrolysis once diluted as a spray solution, being the degradation of active ingredient content on reaction with water, at $\text{pH} > 7$.

Acetamiprid is also subject to hydrolysis in strongly acidic solution once diluted as a spray, being the degradation of active ingredient content on reaction with water, at $\text{pH} < 4$.

The magnitude of degradation of Acetamiprid varies with temperature, time held in the spray tank, the presence of other chemicals and contaminants and the extent to which the pH level is greater than 7, or lesser than 4.

To proactively manage the threat of hydrolysis, VADER 225 VeripHy® is equipped with colour indication technology. This forewarns when there may be a problem and equally provides surety when there is not.

Add a few mLs of VADER 225 VeripHy® to a sample of water to be used in the spray solution preparation and mix thoroughly.

If a yellow colouring is exhibited, this signals that the spray solution is weakly acidic to neutral ($4 < \text{pH} < 7$) and hydrolysis is not a threat with no further action needed. Progress directly to spray solution preparation at full scale.

VeripHy® Colour Indication (continued)

If a green colouring is exhibited, this signals that the spray solution is alkaline (pH > 7) and alkaline hydrolysis is a threat. The spray tank dilution water requires treatment with an acidifying agent. Imtrade Pro 700 Surfactant (APVMA Product No. 64260) or an equivalent product should be added in line with label directions to reduce the pH a preferred level and preserve Acetamiprid. After acidification retest the dilution water by adding a few mLs of VADER 225 VeripHy® and only progress to spray solution preparation at full scale when a yellow colouring is exhibited.

If an orange colouring is exhibited, this signals that the spray solution is strongly acidic (pH < 4) and acidic hydrolysis is a threat. The spray tank dilution water requires treatment with an alkalisng agent. Caustic soda, ammonia solution, lime or another base should be added in line with label directions to increase the pH to a preferred level and preserve Acetamiprid. After alkaisation, retest the spray solution by adding a few mLs of VADER 225 VeripHy® and only progress to spray solution preparation at full scale when a yellow colouring is exhibited.

Alkalis – add caustic soda, ammonia solution, lime, etc.	OK	Acidify – add Imtrade Pro 700 Surfactant
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INSECTICIDE RESISTANCE WARNING

GROUP 4A INSECTICIDE

For insecticide resistance management VADER 225 VeripHy® is a Group 4A Insecticide. Some naturally occurring insect biotypes resistant to VADER 225 VeripHy® and other Group 4A Insecticide may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if VADER 225 VeripHy® or other Group 4A Insecticide are used repeatedly. The effectiveness of VADER 225 VeripHy® on resistant individuals could be significantly reduced.

Since occurrence of resistant individuals is difficult to detect prior to use, Imtrade Australia Pty Ltd accepts no liability for any losses that may result from the failure of VADER 225 VeripHy® to control resistant insects. VADER 225 VeripHy® may be subject to specific resistance strategies. For further information contact your local supplier, Imtrade Australia Pty Ltd representative or local agricultural department of agriculture agronomist.

Cotton Aphid Resistance Management

If repeat applications are required, alternate VADER 225 VeripHy® with a registered insecticide from a different chemical group. **DO NOT** apply consecutive applications of Group 4A Insecticides.

Green Peach Aphid Resistance Management

If repeat applications are required, alternate VADER 225 VeripHy® with a registered insecticide from a different chemical group. **DO NOT** apply consecutive applications of Group 4A Insecticides in any season, or between seasons.

RE-ENTRY PERIOD

DO NOT allow re-entry into treated areas until the spray deposits have dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrists (or equivalent clothing) and chemical resistant gloves. Clothing should be laundered each day.

PRECAUTIONS

DO NOT use human flaggers/markers unless they are protected by engineering controls such as vehicles with enclosed cabs.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses with the chemical or used container.

STORAGE AND DISPOSAL

The method of disposal of the container depends on the container type. Read the Storage and Disposal instructions on the label that is attached to the container.

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

All Pack Sizes unless otherwise stated

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FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre (*Phone Australia 13 11 26; New Zealand 0800 764 766*). If swallowed, do NOT induce vomiting. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes wash out immediately with water.

WARNING: NOT FOR THERAPEUTIC USE

Additional GHS Hazard & Precautionary Statements

- Combustible liquid;
- Causes skin irritation;
- Causes serious eye irritation;
- May cause respiratory irritation;
- May damage the unborn child;
- Keep away from heat, sparks, open flames and hot surfaces – No smoking;
- Avoid breathing fumes;
- **DO NOT** get on clothing;
- Use only outdoors or in a well-ventilated area;
- Call a POISON CENTRE or doctor if you feel unwell;
- If skin irritation occurs: Get medical advice;
- If eye irritation persists: Get medical advice;
- In case of fire, use carbon dioxide, dry chemical, foam to extinguish;
- Store locked up;
- Store in a dry place.

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PG III	HAZCHEM •3Z

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