

INSECTICIDE DAKOTA™ SP

Contact and stomach insecticide for the control of pests listed on canola, citrus, cotton, rooibos tea, table grapes, tomatoes, wheat, barley and oats

ACTIVE INGREDIENT: % BY WT

ACETAMIPRID..... 20.0%

OTHER INGREDIENTS:..... 80.0%

TOTAL:..... 100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION

See Inside for Additional Precautionary Statements and Directions for Use



CROWNBRIDGE

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DAKOTA

ACTIVE INGREDIENT

acetamiprid (neonicotinoid) 200 g/kg SP

Registration holder

CROWNBRIDGE MANAGEMENT L.P.

Emergency number- 80004249300

WARNINGS:

Waiting periods:

Allow the following number of days between the last application and harvest or feeding:	
Citrus:	150 days
Cotton:	21 days
Wheat and Canola:	56 days
Barley:	60 days
Oats:	70 days
Sugarcane	56 days

NOTE: The recommended withholding period between last application and harvest meets local residue requirements but may not meet export requirements. If the crop is intended for the export market, consult the relevant exporting body before application of the product with regard to pre-harvest interval requirements.

- Do not graze all treated crops.
- Handle with care.
- Harmful when swallowed or inhaled.
- Inhalation of the dust and spray mist may cause irritation of the nose, throat and lungs.
- Cause mild to moderate irritation to the skin and eyes.
- May be harmful to aquatic organisms and toxic to honey bees. The product may be used in flowering crops during flowering as the possible risk to bees from the use of the product is considered minimal. Do not spray directly onto bees or when bees are active in the crops.
- Store in a cool, dry place and away from food, feeds and seed.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area, until spray deposit has dried unless wearing protective clothing.
- Aerial application: notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate adjacent areas of water.

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water; incompatibility with other substances not indicated on the label and the occurrence of resistance of the pest against the remedy concerned as well as by the method, time and accuracy of application. The registration holder, furthermore, does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS:

- Do not inhale dust or spray mist.
- Avoid skin and eye contact.
- Wear protective clothing, suitable mask or face shield, rubber gloves and rubber boots when handling and mixing the product and whilst applying the spray mixture.
- In case of skin contact, remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with clean, cold water and non-abrasive soap. Do not rub the skin. Obtain medical attention if irritation persists.
- In case of eye contact, **immediately** flush eyes with copious amounts clean, cold water for at least 15 to 20 minutes, holding the eyelid(s) open. Obtain medical attention if irritation persists.
- In case of ingestion, **do not induce vomiting**. Do not give anything by mouth to an unconscious person. Obtain medical attention immediately and make the container, or label or Safety Data Sheet available. If the person is alert, rinse mouth thoroughly with water and give one or two glasses of water to drink.
- Wash with soap and water after use and accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face and changing clothing.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean application equipment and mixing buckets after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Containers and packages must be completely emptied before being disposed of.
- Shake out thoroughly into the mixing bucket, drum or mixing tank before destroying the empty container and package.
- Destroy empty container and package and never re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING:

For resistance management, **DAKOTA** is a group code **4A** insecticide. Any insect population may contain individuals naturally resistant to **DAKOTA** and other group code **4A** insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **DAKOTA** or any other group code **4A** insecticide.

Take note that acetamiprid is chemically related to other neonicotinoid products, e.g. imidacloprid. To minimize the possibility of resistance, apply a maximum of 2 neonicotinoid treatments per growing season.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank-mix with products from different insecticide group codes,
- Integrate other control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS:

- Do not treat trees or plants which are under stress e.g. stress as a result of water logging, drought, soil compaction, nutrient deficiencies, root and stem diseases, nematodes, etc.

- Do not treat trees in the post-harvest period as the systemic action and translocation of the product would be adversely affected.
- Treat trees and plants when growing actively.
- Take note that low temperatures will reduce the rate of systemic translocation from site of application to the target insect pests.
- Dust on plants will adversely affect optimum uptake and activity of the product.
- **Very Important:** The choice of products to be used during one growing season should take resistance strategy in consideration. Adhere to the instructions under “Resistance Warnings” above.

DIRECTIONS FOR USE: Use only as indicated.

Compatibility:

- It is recommended to do a compatibility test on a small scale before using **DAKOTA** in a tank mixture with other agrochemicals.
- **DAKOTA** is not compatible with chemicals with strong alkaline reaction upon dilution or strong alkaline spray water.
- Always refer to the label of the product which is to be used or tank mixed with **DAKOTA** and adhere to the warnings, precautions, restrictions and instructions.

Mixing Instructions:

- Half-fill the spray tank with clean water.
- Measure out the required quantity of **DAKOTA** and premix with at least 10 litres of the already buffered spray water.
- Add this premix to the spray tank while agitating.
- If any other product is to be added to the tank mixture, the required volume of that product must be premixed in a similar fashion.
- Agitate the water in the spray tank and add the second premixed product to the tank, provided **DAKOTA** has been completely dissolved.
- Fill the spray tank with water to the required volume, while maintaining agitation to ensure thorough mixing. In situations where **SPRAYFILM 10** is to be added, add the required quantity as the last compound, while the spray tank is filled with water.
- Maintain agitation during spraying.
- Use the prepared mixture immediately. Do not allow to stand overnight.

AERIAL APPLICATION

Aerial application may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS Code 10118 (Aerial Application of Pesticides). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

Equipment

- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage of the target area and will ensure the minimum loss of product through drift.
- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.

- All nozzles and atomisers should be positioned within the inner 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

Application parameters

- Post-emergence
- A minimum volume of 35 l spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- A droplet coverage of 30–45 droplets per sq cm must be recovered at the target.
- A droplet spectrum with a VMD of 350 microns is recommended. Ensure that the production of fine droplets, with a VMD less than 150 microns, is restricted to a minimum.
- The height of the spray boom should be maintained at between 2 and 3 m above the target.
- Do not spray when the aircraft is in a climb, at the top of a turn or during a dive or when banking.
- Apply before the crop growth becomes too dense, which will interfere with overall plant coverage.

Meteorological conditions

- The difference between the wet and dry bulb readings as determined by a whirling hygrometer, must not exceed 8 °C.
- Do not spray under turbulent, unstable conditions nor during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer).
- Do not spray when the wind speed exceeds 15 km per hour.

General

- Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met.

APPLICATION DOSAGE RATES:

CROP / PEST:	DOSAGE RATE:	REMARKS:
CITRUS Aphids (<i>Aphids gossypii</i> & <i>Toxoptera citricidus</i>), Leaf miner (<i>Phyllocnistis citrella</i>) and Psylla (<i>Trioza erythrae</i>)	40 g/100 l water	<u>Nursery and Non-bearing Transplanted Trees:</u> Apply the first application as soon as necessary. Apply as an outside cover spray, to the point of run-off. Repeat the application when the threshold is exceeded. <u>Bearing Trees (not on lemon trees):</u> Scout regularly for the presence of these insects and when necessary during first 6 weeks of petal fall, apply DAKOTA . Apply as an outside cover spray to the point of run-off.
Citrus Thrips (<i>Scirtothrips aurantii</i>)	40 g/100 l water	<u>Nursery and Non-bearing Transplanted Trees:</u> Apply the first application as soon as necessary. Apply as an outside cover spray, to the point of run-off. Repeat the application when the threshold is exceeded.

	40 g/100 l water	<p><u>Bearing Trees (not on lemon trees):</u> Apply DAKOTA as a preventative measure at 100% petal fall or shortly thereafter, as soon as 2% of the fruit are infested. Apply as an outside cover spray, to the point of run-off. Scout regularly and apply a second application when the threshold is exceeded, but not later than 6 weeks after the first application.</p>
Mealybug (all species)	40 g/100 l water	<p><u>Nursery and Non-bearing Transplanted Trees:</u> Apply the first application as soon as necessary. Apply as a full cover spray, to the point of run-off. Repeat the application when the threshold is exceeded.</p>
	50 g/100 l water	<p><u>Bearing Trees (not on lemon trees):</u> Scout regularly and when necessary at 100% petal fall, apply DAKOTA. Apply as a full cover spray to the point of run-off. If necessary apply a second application, not later than 6 weeks after the first application.</p>
Red Scale (<i>Aonidiella aurantii</i>)	50 g/100 l water	<p><u>Nursery and Non-bearing Transplanted Trees:</u> Scout regularly and apply the first application as soon as necessary. Apply as a full cover spray, to the point of run-off. Repeat the application when the threshold is exceeded.</p>
	50 g/100 l water	<p><u>Bearing Trees (not on lemon trees):</u> Scout regularly and when necessary at 100% petal fall, apply DAKOTA. Apply as a full cover spray to the point of run-off, ensuring thorough wetting of the branch framework and foliage. Scout regularly and if necessary, apply a second application, not later than 6 weeks after the first application.</p>
<p>Very Important: Adhere to the “Resistance Warning”, “Use Restrictions” and “Directions for Use”, as mentioned above. Apply DAKOTA in a spray programme with other registered products, taking into account the pest complex to control and the resistance strategy.</p>		
CROP / PEST:	DOSAGE RATE:	REMARKS:
<p>COTTON Aphids (<i>Aphis gossypii</i>) and Leafhopper/jassids (<i>Jacobiella fascialis</i>)</p>	50 - 75 g/ha	<p>Apply two applications and use the higher dosage rate when population pressure is high. Apply the first, preferably when the population is below the economical threshold and before formation of honeydew on the plants. Apply 200 litres spray mixture per hectare and ensure good coverage of plants. Apply the second application 7 to 10 days later. Very Important: Adhere to the “Resistance Warning”, “Use Restrictions” and “Directions for Use”, as mentioned above. Use DAKOTA in a spray programme with other registered products to control these insects effectively throughout the growing season, taking into account resistance strategy.</p>

<p>WHEAT (dry land only), BARLEY and OATS</p> <p>(Winter rainfall area) Oat aphid (<i>Rhopalosiphum padi</i>), Brown ear wheat aphid (<i>Sitobion avenae</i>) and Common wheat aphid (<i>Schizaphis graminum</i>)</p>	<p>50 g/ha</p>	<p>Apply when pest is seen and repeat when necessary. Do not apply later than ear emergence stage of wheat, barley and oats and the start of the flowering stage of canola.</p> <p>Ground application: Do not apply in less than 75 l water/ha. Ensure that there is good coverage of all plant parts.</p>
<p>CANOLA (winter rainfall area)</p> <p>Cruciferae aphid (<i>Brevicoryne brassicae</i>)</p>		
<p>SUGARCANE</p> <p>Thrips (<i>Fulmekiola serrata</i>)</p> <p>(suppression)</p>	<p>1.5 kg/ha plus wetter (0.05% Silhouette)</p>	<p>Ground application Apply in at least 250 l water/ha as soon as pest is noticed. At least 6–8 green leaves must be present. Use a flat fan nozzle and direct the spray to the centre of the developing tillers.</p> <p>Aerial application Apply in at least 30 l spray mixture per ha. (Use Silhouette at 200 ml per ha.)</p>