

Read the label before opening the container.

For full particulars, see enclosed leaflet.

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

BROMOPROPYLATE

South Africa Reg. No: L9473 Act No. 36 of 1947

IRAC INSECTICIDE GROUP CODE: UN

An emulsifiable concentrate contact acaricide with a long residual activity for the control of certain mites in bananas, citrus, cotton, mangoes and grapes.

ACTIVE INGREDIENT:

Bromopropylate (benzilic acid ester)..... 500g/ℓ

HAZARD STATEMENTS

- Flammable liquid and vapour.
- May be fatal if swallowed and enters airways.
- Causes serious eye damage.
- Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

- Wash hands, forearms and face thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.



DANGER

Product Information: 072 678 8226
In case of poisoning: 082 446 8946

enviro
bio-chem

Registration holder: Eintrade cc t/a RT Chemicals

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Expiry Date:

Batch No:

Date of Manufacture:

UN No. 1993

WARNINGS:

Withholding period: Allow the following minimum number of days between last application and harvest or grazing of the crops as listed below:

Citrus, Cotton	10 days	Table grapes	21 days
Bananas	14 days	Wine grapes	56 days

Do not apply Bromopropylate with other products in a tank mixture when applying to grape vines after berry formation.

Note: The above withholding periods will ensure that residues do not exceed the local MRLs. However, the import tolerances of other countries might be exceeded. If the crop to be treated with Bromopropylate, is intended for export, consult the relevant importer or exporting body prior to the use of this product.

- Flammable liquid and vapour.
- May be fatal if swallowed and enters airways.
- Causes serious eye damage.
- Very toxic to aquatic life with long lasting effects.
- **FLAMMABLE:** Keep away from heat and flame.
- Do not store below 1°C.
- Toxic to fish and other aquatic organisms.
- Keep out of reach of children, uninformed persons and animals.
- Store in a cool place, away from food and feedstuffs.
- **Re-entry:** Do not enter the treated field until the spray deposit has dried unless wearing protective clothing.
- **Aerial application:** Notify all the inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings.

Although this acaricide 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 effected by factors such as abnormal soil, climatic and storage conditions; quality of dilution water, compatibility 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 the 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 event of any uncertainty.

PRECAUTIONS:

- Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- Wash hands, forearms, and face thoroughly after handling.
- Do not eat, drink, or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash contaminated clothing after use.
- Prevent contamination of food, feedstuff, eating utensils and drinking water.
- Store in a well-ventilated place. Keep cool.
- Collect spillage.
- Prevent spray mist drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean the spray equipment after use. Dispose of the rinsate where it will not contaminate crops, grazing or any water body.
- Triple rinse empty container in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the content of the spray tank. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.
- Dispose of the empty container in accordance with local and national legislation and never re-use it for any other purpose.

RELEVANT SUBSTANCES:

Bromopropylate 47.7%

Tristyrylphenol ethoxylates <10%

Calcium dodecylbenzenesulfonate <10%

Solvesso 150 <50%

FIRST AID TREATMENT:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

INHALATION: Remove person to fresh air and keep comfortable for breathing.

INGESTION: Immediately call a POISON CENTER or doctor/physician.

SKIN CONTACT: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

RESISTANCE WARNING:

For resistance management Bromopropylate is a benzilic acid ester insecticide. Any mite population may contain individuals naturally resistant to Bromopropylate and other benzilic acid ester insecticides. The resistant individuals can eventually dominate the mite population if these insecticides are used repeatedly. Bromopropylate or any other benzilic acid ester insecticide may not control these resistant insects.

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.

DIRECTIONS FOR USE: Use only as directed

Compatibility:

The compatibility of **BROMOPROPYLATE** with other products may be influenced by the formulation of the products involved as well as the quality of the spray water.

A physical compatibility test should always be carried out prior to the application of any tank mixture.

Mixing instructions:

Replace the container cap after use.

Add the required quantity of **BROMOPROPYLATE** to the required volume of water in the spray tank.

Ensure thorough agitation of the mixture in the spray tank during mixing and spraying.

The spray equipment must be thoroughly flushed out with clean water after use.

Application:

Ensure that all application equipment is clean and correctly calibrated before use.

Ground application:

Apply as a full cover spray of the target plants to point of run-off.

Aerial application:

BROMOPROPYLATE may only be applied by aircraft for the control of bud mite in citrus.

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 10118 (Aerial Application of Agricultural Remedies). 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:

- **Volume:** A spray mixture volume of 30ℓ per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 30 to 40 droplets per cm² must be recovered on the target area.
- **Droplet size:** A droplet spectrum with a VMD of 250 to 280 microns is recommended. Limit the production of fine droplets of less than 150 microns (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, and will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75% of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C. Do not spray in the heat of the day.
- Stop spraying if the wind speed exceeds 15km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80% and above) may lead to the following:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the Aerial Spray Operator knows exactly which orchards to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

APPLICATION RATES:

CROP	DOSAGE	REMARKS
CITRUS Bud Mite (<i>Aceria Sheldoni</i>)	30 - 50ml/100ℓ water	<p>Ground application: Apply as a medium volume full cover spray ensuring thorough wetting. Use 6 to 7ℓ spray mixture per one metre tree height above the skirt or tree diameter.</p> <p>In the case of severe blossom malformation two applications should be made - the first during spring following petal fall and the second during the period February to April. Use the higher dosage rate for the first application.</p> <p>In the case of light to medium blossom malformation apply a single spray any time during the period February to April. In the case of a light infestation on Navels, the single spray treatment may be delayed until the crop is harvested.</p>
	2.5 - 3ℓ/ha	<p>Aerial application: Apply in 30ℓ water.</p>

CROP	DOSAGE	REMARKS
Red Mite (<i>Panonychus Citri</i>)	75mℓ/100ℓ water	Ground Application: Apply at the first indications of an infestation. Repeat if necessary.
Flat Mite (<i>Brevipalpus Californicus</i>)	30mℓ/100ℓ water	
Grey Mite (<i>Calacarus Citrifolii</i>)	30mℓ/100ℓ water	Apply two applications. Apply the first application just after petal fall. The second application can be applied 2 months after the first.
Silver Mite (<i>Polyphagotarsonemus Latus</i>)	30mℓ/100ℓ water	If russetting occurred the previous season, apply an application in spring.
COTTON Red or Two-spotted Spider Mite (<i>Tetranychus Urticae</i>)	200mℓ/100ℓ water	Ground Application: Apply as a full cover spray at the first signs of infestation. Repeat after 10 days if necessary.
CROP	DOSAGE	REMARKS
MANGOES Bud Mite (<i>Aceria Mangiferae</i>)	30mℓ/100ℓ water	Ground application: Apply as a pre-blossom full cover spray.
BANANAS Banana Mite (<i>Tetranychus Amicus</i>)	100mℓ/100ℓ water	Ground application: Apply a full cover spray as soon as the mite infestation is noticed. If necessary, apply a follow-up application, 10 days later. Ensure thorough wetting of the bunches.
GRAPES Bud Mite (<i>Eriophyes Vitis</i>), Bud Damage, Leaf Gall Formation & Curly Leaf	50mℓ/100ℓ water (125 - 750mℓ/ha)	Ground application: Apply two applications. Apply the first application after bud burst of the last eyes, when the longest shoots are 2 to 5cm long. The second application can be applied 14 days after the first. Ensure thorough wetting of the vines, especially the cordon arms. Apply at least 500mℓ spray mixture per vine. A third application is recommended for the control of leaf gall formation and curly leaf on susceptible cultivars. Apply up to mid-December, before the second growth cycle start.