

Agri
NOVAGENIX
SUPREME

Reg. No. / Nr L11763 Act No. 36 of 1947 / Wet Nr 36 van 1947

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP

23

INSECTICIDE

A suspension concentrate, systemic insecticide for the control of insect pests in the crops as indicated.



In case of poisoning, call the following number: Poisons Information Helpline: +27 861 555 777

EMERGENCY NUMBER: +27 82 446 8946

'n Suspensiekonsentraat, sistemiese, insekdoder vir die beheer van plae in gewasse soos aangedui.

Hazard statements

Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
May cause an allergic skin reaction.
May cause respiratory irritation.
Toxic to aquatic life with long lasting effects.

Precautionary statements

IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do. Continue rinsing.
Get medical help if you feel unwell.

Active Ingredient / Aktiewe Bestanddeel

Spirotetramat (tetramic acid).....contains 240 g a.i. per l.....Spirotetramat (tetramies suur)

Net volume l Netto volume

Batch No./Date manufactured/Expiry date: Refer to details printed on container.
UN No. / VN Nr. 3082

REGISTRATION HOLDER / REGISTRASIEHOUER:

Novagen Innovations (Pty) Ltd / (Edms) Bpk t/a Agri Novagenix
Reg. No. 2020/891524/07
6 Antwerp Street, Apex, Benoni, 1540, South Africa / Suid-Afrika



WARNINGS

- GHS Hazard statements

Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
May cause an allergic skin reaction.
May cause respiratory irritation.
Toxic to aquatic life with long lasting effects.

Allow the following number of days between the last treatment and harvest or use as food or feed:

Brassica vegetables, leafy vegetables (including Brassica leafy vegetables).....3 days
Canola.....3 days
Citrus.....60 days
Table and Wine Grapes.....Do not apply after pea berry stage

IMPORTANT: The recommended withholding period between the last application and harvest meets local residue requirements but may not meet export requirements. However, it is important to note that import tolerances of other countries might potentially be exceeded. If the treated crop will be exported, first consult the relevant importer or exporting body regarding the use of this product, MRL's and recommended withholding periods.

- Harmful if swallowed, inhaled, or absorbed through the skin.
- Do not contaminate dams, rivers, lakes, or any other water sources.
- Store under lock and key in the original, tightly closed container in a cool, dry, well-ventilated place away from heat, light, and air and out of direct sunlight.
- Store away from food, feed, fertilizer, and seed.
- Keep out of reach of children, uninformed persons, and animals.
- Use only containers approved specifically for this product.
- **Re-entry:** Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **SUPREME** has been tested on some of the most important commercial cultivars without any phytotoxic effects. More susceptible cultivars may be released in the future which will need to be tested. For this, apply **SUPREME** to a limited test area before any commercial applications are made.
- **In case of poisoning immediately call a physician and make this label available to him/her.**

DISCLAIMER

Although this remedy has been 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, compatibility with other substances not indicated on the label and the occurrence of resistance of the insects 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 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

- GHS Precautionary statements

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read carefully and follow all instructions.
Obtain, read and follow all safety instructions before use.
Avoid breathing dust/fumes/gas/mist/vapours/spray.
Wash hands thoroughly after handling. Do not touch eyes.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If exposed or concerned, get medical advice.
Get medical help if you feel unwell.
Specific treatment (see FIRST AID TREATMENT on this label).
If skin irritation or a rash occurs: Get medical help.
If eye irritation persists: Get medical help.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with national regulations.

- OPERATOR PROTECTION
 - Handle with care.
 - Do not inhale spray mist or fumes.
 - Avoid contact with skin and eyes by wearing face shield or goggles and rubber gloves when mixing the product.
 - Wash with soap and water after use and accidental skin contact as well as contact with contaminated clothing.
 - Should eye contact occur, flush the eyes with plenty of clean water for 15 minutes holding eyelids open. Remove contact lenses after five minutes of irrigation. Seek medical attention if irritation persists.
 - 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 clothes.
 - Suspected of damaging fertility or the unborn child. Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment when mixing or applying the product.
- ENVIRONMENTAL PROTECTION
 - Do not contaminate dams, rivers, lakes, or any other water sources.
 - Avoid drift of spray onto other crops, grazing, rivers, dams, and areas not under treatment.
 - Clean the applicator with clean water directly after use. Dispose of the rinsate where it will not contaminate crops, grazing, rivers, dams, and boreholes.
- STORAGE AND DISPOSAL
 - Store under lock and key in the original container in a cool, dry place out of direct sunlight.
 - Store away from food, feed, fertilizer, and seed.

- **KEEP OUT OF SIGHT AND REACH OF CHILDREN**, uninformed persons, untrained personnel, unauthorised personnel and animals.
- Do not allow access to this product by children, uninformed persons, untrained personnel, unauthorised personnel, or animals under any circumstances.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Containers and packages must be completely emptied before disposal.
- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter, rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Destroy the triple rinsed container by perforation and flattening and do not use for any other purpose. Store appropriately until it can be disposed of via an approved collector or recycler authorised to recycle or destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations. Empty containers and product should not be burnt. Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

RELEVANT SUBSTANCES

Hazardous ingredient	Concentration (w/v)
Spirotetramat	24%

FIRST AID TREATMENT

If medical advice is needed, have product container or label at hand. Provide medical personnel with the product container, label or safety data sheet (SDS) when seeking medical attention.

General Information: Remove patient from exposed area. Never give fluids or induce vomiting if the patient is unconscious or is having convulsions.

Inhalation: Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical attention immediately.

Skin contact: Immediately flush body and clothes with large amounts of water and soap. Remove contaminated clothing and footwear. Wash affected areas with soap and water, if available with polyethylene glycol 400. Do not rub skin. Persons providing first aid must wear gloves to avoid self-contamination. Seek medical assistance if irritation occurs.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes holding the eyelids open. Remove contact lenses, if present, after the first five minutes. Seek medical assistance if irritation occurs.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by a physician. Rinse mouth if the patient is alert and able. For advice, contact the National Poisons Centre. with water. **Seek medical assistance immediately.**

No specific antidote is known. Treat symptomatically and supportively. In case of ingestion, gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is advisable. For further information on the treatment of poisoning refer to the product Safety Data Sheet provided.

RESISTANCE MANAGEMENT WARNING STATEMENT

For resistance management, **SUPREME** is a group code 23 insecticide. Any insect population may contain individuals naturally resistant to **SUPREME** and other group code 23 insecticides. These resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **SUPREME** or any other group code 23 insecticide.

To delay insecticide resistance:

- Avoid the exclusive repeated use of insecticides from the same insecticide group code. Alternate, or tank mix, with registered products from different insecticide group codes.
- A spray programme of mixtures or alternations with remedies with a different mode of action may delay resistant strain build-up.
- Integrate other control methods (such as chemical, cultural, biological) into insect control programmes.
- The choice of products to be used during one growing season should take the resistance strategy into consideration.
- Refer to the Insecticide Resistance Action Committee for information regarding resistance management at <https://irac-online.org> for more information.

As the occurrence of resistance cannot be forecast, users are advised to keep all treated crops under close observation. If the treatment is not effective following the use of **SUPREME** as recommended, a resistant strain may be present. If a resistant strain is positively identified, consideration should be given to the prompt use of an insecticide with a different mode of action against which no record of resistance to the relevant insect pest exists.

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

The presence of resistant insects is difficult to detect prior to use and therefore neither the Registration Holder nor the Distributor can accept responsibility for any losses as a result of **SUPREME** not controlling resistant insects. Do not apply **SUPREME** alone in situations where insect resistance has been confirmed. Sub-standard application of **SUPREME** or other group code 23 insecticides will lead to inferior insect control and may assist in the development of insecticide resistance.

MODE OF ACTION

Spirotetramat is a systemic insecticide that penetrates the plant leaves. It acts as an acetyl CoA carboxylase inhibitor in insect pests, thereby inhibiting lipid biosynthesis.

DIRECTIONS FOR USE - Use only as directed.

NOTICE TO USER: This agricultural remedy is to be used only in accordance with the instructions on the label. It is an offence under Act No. 36 of 1947 to use this agricultural remedy for any purpose or in any manner contrary to the directions on the label.

EFFECT ON BENEFICIAL INSECTS

Harmless	Slightly harmful	Harmful
Citrus predatory insects: <i>Chilocorus nigritus</i>	<i>Aphytis lingnanensis</i>	<i>Euseius citri</i>

<i>Coccidoxenoides peregrinus</i>		
<i>Trichogrammatoidea cryptophlebiae</i>		
Bees		

COMPATIBILITY

The compatibility of **SUPREME** with other products depends on the formulations of the respective products as well as on the quality of the spray water to be used. As formulations may change from time-to-time, it is recommended that a physical compatibility test be done to the tank mixture being made. **SUPREME** is compatible with a variety of herbicide and fungicides normally used in the crops listed below. **SUPREME** is compatible with light to medium range mineral oil, H&R Crop Oil (L 6802) and Methos (L11114). All WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE on the product labels must be fully adhered to. Consult the relevant labels for full details.

SUPREME should not be mixed with products other than those specifically listed in this label.

USE RESTRICTIONS

- **SUPREME** is only active against juvenile / nymph stages of the target pests, and causes sterilisation of adult females. Thus, adults may still be observed following some-time after application. Adult populations will decrease from approximately two weeks after application depending on the effect of environmental conditions on the lifecycle of target pests.
- It is not recommended to apply **SUPREME** in tank mixtures with fungicides, as this may result in sub-optimal control of the targeted insect pest(s). If unavoidable, then use the higher dosage rate (as per below recommendations) in combination with the fungicide.
- Do not apply **SUPREME** to any crop or situation not mentioned in this instruction leaflet.
- Only apply **SUPREME** using an accurate and safe application technique.
- If **SUPREME** is used in a tank mix with other recommended remedies, consideration should be given to the restrictions of those respective products.
- Do not apply this product in combination or tank mixture with any other product or agricultural remedy which is not specifically listed on this label. Novagen Innovations (Pty) Ltd t/a Agri Novagenix accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless an Agri Novagenix representative was consulted beforehand.
- By buying this product, the buyer undertakes that the user is fully aware of and suitably trained on the hazards associated with the preparation and use of this product. By selecting this product voluntarily, the user assumes responsibility for his or her own personal protection whilst storing, mixing, and applying the product in the approved manner according to the instructions for use. The user also confirms to have consulted the SDS of this product and he/she is aware of the potential health hazards which could arise out of use and misuse of this product. Users are encouraged to keep records of all procedures followed and which personal protection equipment was used at all times. All personal protection equipment used must be kept clean and in good working order according to the manufacturer's specifications. Novagen Innovations (Pty) Ltd accepts no responsibility for any adverse effects experienced if the instructions on this label are not adhered to or resulting from improper use of this product or the use of unsuitable personal protection equipment. The user has selected to use this product at his/her own free will and risk.

MIXING INSTRUCTIONS

Half-fill the spray tank with suitable water. Add the required quantity of **SUPREME**. Fill the spray tank to the required volume with suitable water while maintaining agitation. Do not use brackish water. Should tank mixtures with other products be made, follow the respective manufacturer's label recommendations. **Ensure thorough agitation of the mixture in the tank during mixing and**

application. Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight. Ensure that agitation takes place for a few minutes prior to the commencement of spraying after normal operational stops such as lunch breaks. The spraying equipment must be thoroughly flushed out at the end of the spraying operation. Ensure that spray premixes and/or final spray mixtures are kept out of reach of children, uninformed persons, untrained personnel, unauthorised personnel and animals.

APPLICATION METHODS

Ensure that the equipment is correctly calibrated and is checked regularly during the application to ensure even and accurate application. It is essential to ensure thorough, even wetting of all plant parts. **Constant agitation throughout the spray operation is essential.** Use only clean water.

Vegetable crops: Application should **only** be done by ground spray equipment. Thorough coverage of the target area is important. Apply in sufficient water according to the crop growth stage. Always add an adjuvant (such as H&R Crop Oil or Methos) according to their respective labels.

APPLICATION RATES

CROP AND PEST	DOSAGE	REMARKS
Brassica vegetables (Broccoli, Brussels sprouts, Cabbage, Cauliflower) Green peach aphid (<i>Myzus persicae</i>)	200 ml/ ha + Suitable adjuvant OR 20 ml/ 100 l water 200 - 300 ml/ ha + Suitable adjuvant OR 20 - 30 ml/ 100 l water	Start applications when the infestation level has reached the local threshold levels. Where applicable, use the higher rate when periods of high pest pressure or rapid growth of the crop are evident, when longer residual control is required or when the crops are dense (such as from the commencement of head formation). Continue to monitor the crops and make follow-up applications as necessary. Do not apply a SUPREME follow-up application within 1 week following a SUPREME treatment. Do not apply more than three (3) applications per crop. Should Cabbage aphid (<i>Brevicoryne brassicae</i>) be present at the time of application, it should be equally well controlled by this treatment.
Canola Diamond Back Moth (<i>Plutella xylostella</i>)	400 ml/ ha + recommended adjuvant	Apply at egg-hatching or soon thereafter as soon as economic thresholds are reached. Target young larvae. Apply a maximum of three applications as required and alternate with other effective mode of action insecticides. Should further applications be required, use a suitably registered product with an unrelated mode of action to SUPREME .
Cabbage aphid (<i>Brevicoryne brassicae</i>)	200 ml/ ha + recommended adjuvant	Scout for aphid populations and apply when target pest thresholds are reached. Thorough spray coverage is essential. Do not apply more than 3 applications per season in total. Should further applications be required, use a suitably registered product with an unrelated mode of action to SUPREME .

		Other aphid species which may be present should be equally well controlled by this treatment.
Citrus Red Scale (<i>Aonidiella aurantii</i>) Lowveld Citrus mite (<i>Eutetranychus orientalis</i>)	10 – 20 ml/100 l water + 300 ml light to medium narrow range mineral oil OR 10 – 20 ml/100 l water + 300 ml light to medium narrow range mineral oil	Early preventative treatment: Two treatments spray programme*: Apply the first treatment when the first crawler movement is observed (normally at 80 to 100% petal fall or shortly thereafter). Repeat 4 weeks later. Apply as full cover applications and ensure thorough coverage of all parts of the trees. OR Single treatment: Apply when the first crawler movement is observed (normally at 80 to 100% petal fall or shortly thereafter). Apply as full cover applications and ensure thorough coverage of all parts of the trees. These programmes should control all mite species present at the time of application such as Citrus Red Mite (<i>Panonychus citri</i>) and Citrus Rust Mite (<i>Phyllocoptruta oleivora</i>).
NOTE: *The “Two treatments programme” is recommended under conditions of extended or sequential periods of crawler movement, or during uneven flowering. Refer to “RESISTANCE MANAGEMENT WARNING STATEMENT”.		
Mealybugs Suppression of: Citrus mealybug (<i>Planococcus citri</i>)	30 – 40 ml / 100 l water + 300 ml light to medium narrow range mineral oil	Monitor orchards and start with applications after flowering at the onset of crawler movement. Repeat the application after 4 weeks. Apply as full cover sprays in order to ensure that all parts of the tree are thoroughly covered. These programmes should control or suppress all mealybug species present at the time of application such as Long-tailed mealybug (<i>Pseudococcus longispinus</i>) and Oleander mealybug (<i>Paracoccus burnerae</i>).
Thrips Citrus thrips (<i>Scirtothrips aurantii</i>)	30 – 40 ml / 100 l water	Monitor orchards from flowering onwards for presence of Thrips. Apply after flowering. A single treatment may be sufficient under low infestation pressure. Under higher pressure, a second treatment may be applied 2 weeks after the first application, before calyx closure, Use the higher rate in case of high infestation pressure or to obtain longer residual control.

Table and Wine grapes Mealybug (<i>Planococcus</i> spp.)	10 - 20 ml / 100 l water OR 1 – 2 ml / 10 l water	Apply two high volume mist blower applications using 650 to 1500 l spray mixture per hectare. Apply the first treatment within the following growth stage: when the inflorescences are clearly visible until fully developed (BBCH 53 – 57). Apply a follow-up treatment approximately six weeks later at pea-berry stage (BBCH 75). Apply as part of an integrated pest/disease management system with other products as may be required.
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ACKNOWLEDGEMENT OF TRADEMARKS

H&R Crop Oil (L6802)
Methos (L11114)

H&R South Africa Sales (Pty) Ltd
Agritech Bioscience (Pty) Ltd t/a Carabiner