

Agri
NOVAGENIX
REGIME

Reg. No. / Nr L11911 Act No. 36 of 1947 / Wet Nr 36 van 1947

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

GROUP

29

FUNGICIDE

A Suspension concentrate, contact fungicide for the preventative control of and protection against diseases in the crops as indicated.

'n Suspensie konsentraat, kontak swamdoder vir die voorkomende beheer van en beskerming teen siektes in gewasse soos aangedui.

DANGER



In case of poisoning, call the following numbers:

Poisons Information Helpline: +27 861 555 777

EMERGENCY NUMBER: +27 82 446 8946

Hazard statements

May cause an allergic skin reaction.

Causes serious eye damage.

Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

IF IN EYES: Immediately rinse with water for several minutes.

IF ON SKIN: Wash with plenty of water and soap.

Active Ingredient / Aktiewe Bestanddeel

Fluazinam (2,6-dinitro-aniline).....contains 500 g a.i. per l..... Fluasinam (2,6-dinitroaniline)

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

- May cause an allergic skin reaction.
- Causes serious eye damage.
- Suspected of damaging fertility or the unborn child.
- Very 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:

Apples.....28 days
Potatoes.....7 days

IMPORTANT: The recommended withholding period between the last application and harvest meets local residue requirement 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.

- Handle with care.
- May cause sensitisation (allergic reaction) by skin contact. People that are sensitive to **REGIME** should not use or have further contact with the product.
- **Re-entry:** Do not enter a treated field within 2 days following treatment unless wearing protective clothing.
- **REGIME** 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 **REGIME** to a limited test area before any commercial applications are made.

DISCLAIMER

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions. The activity 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 disease against the remedy, 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 by 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

- 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.
- 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.

- IF ON SKIN: Wash with plenty of water and soap.
- If skin irritation or rash occurs: Get medical help.
- Get medical help.
- IF exposed or concerned, get medical advice.
- Specific treatment (see FIRST AID TREATMENT on this label)
- Take off contaminated clothing and wash it before reuse.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Collect spillage.
- 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 a face shield rubber gloves when mixing the product.
- Should eye contact occur, flush the eyes with plenty of clean water for 15 minutes holding eyelids open. Remove contact lenses after five minutes or irrigation. Seek medical attention if irritation persists.
- Do not clear choked spray nozzles by blowing with the mouth.
- Wash with soap and water after use and accidental direct skin contact as well as contact with contaminated clothing.
- Wear protective gloves, protective clothing, eye protection and face protection.
- 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.

- 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 with a volume of water equal to a minimum of 30% of that of the container. Add the rinsings to the contents of the spray tank before destroying the empty container. Destroy the empty container by perforation and flattening and do not use for any other purpose. Store appropriately until it can be taken to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal. Empty containers and product should not be burnt.

RELEVANT SUBSTANCES

Hazardous Ingredients	Concentration (w/v)
Fluazinam	50%
Sodium 2-naphthalenesulfonate	>1-<10%

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.

Never give anything by mouth to an unconscious person. Consult a physician. First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Prolonged or repeated exposure may cause eye damage, headaches and dizziness. Some individuals may develop an allergic response.

Inhalation: Remove the patient from the source of contamination to fresh air. If breathing has stopped, perform artificial respiration and administer oxygen. Avoid mouth-to-mouth resuscitation. Keep person warm and at rest. Treat symptomatically and supportively as and when required. **Seek medical attention.**

Skin contact: Remove contaminated clothing and shoes immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15 to 20 minutes). This product may cause mild irritation to skin. **Seek medical attention.**

Eye contact: Flush eyes immediately with large amounts of gently flowing cold water or normal saline solution, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). This product may cause moderate to severe but temporary irritation to eyes. **Seek medical attention immediately.**

Ingestion: Have patient rinse mouth thoroughly with water if the patient is alert and able. Do not induce vomiting. If the patient is alert and respiration is not depressed, give large quantity of water or milk to drink. If vomiting occurs, rinse mouth and drink fluids again. Never give anything by mouth to an unconscious person. **Seek medical attention.**

No specific antidote is known. Treat symptomatically and supportively. Gastric lavage and the administration of activated charcoal can be considered.

RESISTANCE MANAGEMENT WARNING STATEMENT

For resistance management, **REGIME** is a group code 29 fungicide. Any disease population may contain individuals naturally resistant to **REGIME** and other group code 3 fungicides. These resistant individuals can eventually dominate the disease population if these fungicides are used repeatedly. These resistant diseases may not be controlled by **REGIME** or any other group code 29 fungicide.

To delay fungicide resistance:

- Avoid the exclusive repeated use of fungicides from the same fungicide group code. Alternate, or tank mix, with registered products from different fungicide 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 disease control programmes.
- The choice of products to be used during one growing season should take the resistance strategy into consideration.
- Refer to the individual product labels when alternating products or when using tank mixtures with registered products.
- Refer to the Fungicide Resistance Action Committee for information regarding resistance management of group 29 fungicides at <https://www.frac.info/> for more information.
- Apply **REGIME** preventatively as part of an anti-resistance strategy in conjunction with registered fungicides with a different mode of action to that of **REGIME**.
- Potatoes: Apply a maximum of 6 applications per season. In regions with reported resistance, limit the number of **REGIME** applications to a maximum of 50% of the total fungicide applications and use mixtures with fungicides belonging to other modes of action that provide control of late blight in potatoes.

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 **REGIME** as recommended, a resistant strain may be present. If a resistant strain is positively identified, consideration should be given to the prompt use of a fungicide with a different mode of action against which no record of resistance to the relevant disease exists.

The presence of resistant strains 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 **REGIME** not controlling resistant strains. Do not apply **REGIME** alone in situations where disease resistance has been confirmed. Sub-standard application of **REGIME** or other group code 29 fungicides will lead to inferior disease control and may assist in development of disease resistance.

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

MODE OF ACTION

Fluazinam is a multi-site contact fungicide which, when applied to the plant, remains primarily on the plant surface and kills any fungicidal spores that come into contact with it. Fluazinam acts by interrupting fungal energy production by uncoupling oxidative phosphorylation in the mitochondria and thereby inhibiting spore germination and the development of infection structures.

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.

COMPATIBILITY

The compatibility of **REGIME** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made. **REGIME** is compatible with registered azoxystrobin 250 g/l SC.

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.

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

USE RESTRICTIONS

- Potato blight fungicides may not give complete protection when the disease risk is severe. However, disease development will be delayed significantly with a well-timed spray programme.
- Do not apply **REGIME** to any situation not mentioned in this instruction leaflet.
- Only apply **REGIME** using an accurate and safe application technique.
- If **REGIME** is used in a tank mix with other recommended products, 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

Shake the container thoroughly before opening. Half-fill the spray tank with clean, suitable water. While agitating, add the recommended amount of **REGIME** to the spray water. 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. If other products will be tank mixed with **REGIME**, the following mixing sequence, as applicable, must be used: buffer/acidifier; wettable powder or granules; suspension concentrate; emulsifiable concentrate; wetter. Thereafter fill the tank to the required volume with clean water while maintaining agitation, to ensure thorough mixing of the spray mixture, before application commences. **Ensure thorough agitation of the mixture in the tank during mixing and application. Tank mixtures must be sprayed out immediately and not permitted to stand in the spray tank.** **REGIME** can be mixed with water of different pH values and hardness normally encountered in agricultural conditions. 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

The spray equipment must be accurately calibrated prior to and during the application of **REGIME**. Ensure full and even coverage of all plant parts and use only clean, suitable water for application.

Ensure that the equipment is correctly calibrated and is checked regularly to ensure even and accurate application. Repeat the application if it rains within two (2) hours following application.

GENERAL

- **REGIME** must be applied as a full cover preventative treatment against diseases as indicated.
- Thorough coverage of both leaf surfaces is very important.

General crop recommendation on potatoes:

- **REGIME** must not exceed 50 % of the total amount of sprays per cropping season or a total of six (6) applications if more than twelve (12) applications are made per cropping season.
- **REGIME** must be applied as a full cover preventative treatment against diseases as indicated. Thorough coverage of both leaf surfaces is very important.

APPLICATION RATES

CROP AND DISEASE	DOSAGE	REMARKS
Apples Scab <i>(Venturia spp.)</i>	70 ml REGIME /100 l	Prior to application, refer to the “RESISTANCE MANAGEMENT WARNING STATEMENT” above, as recommended by FRAC. Start with a preventative spray programme, with 7-day intervals, at green tip up to 75% petal fall (the primary infection period) or when conditions favour primary scab development. During the period following the 75% petal fall stage, apply the spray programme with 10 – 14 day intervals. When weather conditions are conducive to infection, revert to 7-day spray intervals. For optimum disease control, include REGIME in a preventative control programme between 25% flowering to early fruit set. Apply a maximum of 6 treatments of REGIME within a preventative spray programme with no more than 3 consecutive applications of REGIME.
Water volume (l) per hectare (ha) required for high volume application using tree row volume (TRV) calculation: • TRV* (Green tip to +/- 30 % blossom) $\text{l water/ha} = [(\text{Tree Height} \times \text{Tree Diameter} \times 937) / \text{Row Width}] \times 60 \%$ • TRV* (Full blossom to +/- middle November) $\text{l water/ha} = [(\text{Tree Height} \times \text{Tree Diameter} \times 937) / \text{Row Width}] \times 80 \%$ • TRV* (Full leaf)		

$\ell \text{ water/ha} = (\text{Tree Height} \times \text{Tree Diameter} \times 937) / \text{Row Width}$

Use the above formula to calculate the required spray volume of **REGIME** per hectare. It is important that the correct amount of **REGIME** per hectare is applied.

Low Volume Application:

When a low volume spray is used, use the same amount of **REGIME** per hectare as calculated for high volume application.

*Tree Row Volume (TRV) formula described by Unrath (Deciduous Fruit Grower Nov. 1986)

Potatoes Late blight <i>(Phytophthora infestans)</i>	400 mℓ REGIME /ha OR	Apply as a full cover preventive spray in 200 – 500 ℓ spray mix per hectare. Ensure complete coverage of the foliage and stems, increasing the volume as the haulm growth progresses. Start applications at the first blight warning or when local weather conditions are favourable for the development of disease. In the absence of conducive weather conditions, the first application should be made by no later than when the crop meets in the row. Low disease risk situations: Repeat applications every 14 days. High disease risk situations: e.g. following two, humid days or in irrigated crops, the spray interval should be 7 to 10 days. Severe disease risk situations: Apply every 5 to 7 days.
	400 mℓ REGIME /ha + 300 mℓ azoxystrobin 250 g/ℓ SC/ha	Apply preventively as part of a weekly spray program. Start with a weekly program application one to two weeks after the potatoes have emerged. Use alternative effective fungicides as registered on potatoes up to week 5 with 7-day spray intervals. Apply REGIME tank mixed with registered azoxystrobin 250 g/ℓ SC at 14-day intervals during week 6, 8 and 10 alternated with either registered chlorothalonil 720 g/L SC or registered folpet 500 g/ℓ SC during week 7, 9 and 11. Revert back to alternative effective fungicides in a 7-day spray program until such time when disease control is not required anymore. Do not apply more than three (3) applications of REGIME tank mixed with registered azoxystrobin 250 g/ℓ SC per cropping season. Apply as a full cover spray. Thorough coverage of both leaf surfaces is very important.

		Ground application: At least 500 litres water per hectare.
Potatoes Powdery scab <i>(Spongospora subterranea)</i>	4 l REGIME /ha	Apply as a broadcast spray onto a moist soil surface prior to planting in 300 to 500 l of water per hectare in order to provide good coverage. Ensure thorough and even incorporation into the soil to a depth of 15cm by using a power harrow or rotary hoe within 2 hours of application. Application during the planting process is only recommended if the product can be distributed evenly within the tuber initiation and the root zone. Only plant powdery scab-free certified seed tubers in fields treated with REGIME.
NOTE: • To reduce the risk of tuber blight at harvest, REGIME should be applied regularly at the recommended intervals from full canopy development to full haulm desiccation. A complete haulm desiccation programme must be carried out to reduce the risk of development of subsequent tuber blight. The crop should not be lifted for at least 10 days after complete kill of the haulm. • Powdery scab is a fungal pathogen that affects parts of the plant that are under the ground, leading to the formation of warts and pustules on the tuber skin, resulting in yield losses and the downgrading of especially seed potatoes. The pathogen is also a vector and carrier of potato mop-top virus. • Tuber and root infections are favoured by cool, moist soil conditions but warmer, drier conditions which lead to pustule development on the tuber. Irrigation creates favourable conditions for disease development. • Total control of soil borne diseases like powdery scab is not possible and the level of control achieved is directly correlated to the even distribution of the product in the target zone. • Botrytis and Early blight (<i>Alternaria solani</i>) is likely to be suppressed if not controlled when REGIME is applied in a program for late blight control.		