

InFluanz

500 SC

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

SA Reg. No. L11437

**READ ATTACHED PACKAGED LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP

29

FUNGICIDES

PRODUCT INFO:

A suspension concentrate, contact fungicide for the preventive control of diseases on crops as listed.

PRODUK INFO:

'n Suspensie konsentraat kontak swamdoder vir die voorkomende beheer van siektes op gewasse soos gelys.



HAZARD STATEMENTS:

Harmful if inhaled
May cause an allergic skin reaction
Cause serious eye damage
Suspected of damaging fertility or the unborn child
Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS:

Wear protective gloves, protective clothing, eye, and face protection.
Wash hands, face, and exposed skin thoroughly after handling. Do not touch eyes.

DANGER

Active Ingredient / Aktiewe Bestanddeel

Fluazinam (2,6-dinitro-aniline) 500 g/ℓ Fluasinam (2,6-dinitroaniline)

Net (ℓ) SEE CONTAINER

Registration Holder / Registrasiehouer



ICA International Chemicals (Pty) Ltd. • Reg. No. 2001/013319/07
28 Planken Street • Plankenbrug Industrial • STELLENBOSCH • 7600 • SOUTH AFRICA
Tel. +27-21 886 9812 • www.icaonline.co.za

Batch No.
Date of Manufacture

**SEE
CONTAINER**

Lot Nr.
Datum van Vervaardiging

Human Poison Helpline +27-861 555 777 • Griffon Poison Information Centre +27-82 446 8946

UN No. 3082

Group III

SA-FZ002

InFluanz 500 SC

Act No. 36 of 1947
SA Reg. No. L11437

A suspension concentrate, contact fungicide for the preventative control of diseases on crops as listed.

ACTIVE INGREDIENT:

Fluazinam 500 g/ℓ

REGISTERED BY:

ICA International Chemicals (Pty) Ltd., Reg. No. 2001/013319/07
28 Planken Street • Plankenbrug Industrial • Stellenbosch • 7600 • South Africa
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WARNINGS

Harmful if inhaled
May cause an allergic skin reaction
Cause serious eye damage
Suspected of damaging fertility or the unborn child
Very toxic to aquatic life with long lasting effects

WITHHOLDING PERIODS (Minimum number of days between last application and harvest):

Apples 28 Days
Potatoes 7 Days

Compliance with these withholding periods and application methods will ensure that residues do not exceed local maximum residue limits (MRL), but the import tolerances of other countries might possibly be exceeded. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, MRL and recommended withholding periods. Although **InFluanz 500 SC** is regarded as crop-safe on most of the important cultivars, this does not mean that a more sensitive cultivar might be available in future. **InFluanz 500 SC** must be tested on **new cultivars** prior to usage over large areas.

RE-ENTRY INTERVAL: Do not enter treated area until spray deposit has settled down / dried unless wearing protective clothing.

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 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 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, and the environment or harm to man/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

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read carefully and follow all instructions.
Avoid breathing mist, vapours and spray.
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 and face protection.
Wash hands and face thoroughly after handling. Do not touch eyes.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
For specific treatment, see first aid measures on this label.
If skin irritation or rash occurs: Get medical help.
If exposed or concerned, get medical advice.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store locked up.
Dispose of contents and container in accordance with national regulations.

Prevent spray or mist drifting onto other crops, grazing, rivers, dams, and other areas not under treatment.
Clean all equipment thoroughly after use and dispose of wastewater without polluting the environment.

TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Invert empty container over mix or spray tank and allow draining for at least 30 seconds until flow has slowed to a drip. Triple rinse the empty container with clean water equal to a minimum of 30 % of the volume of the container. Add rinsing to the contents of the spray tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). 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:

Fluazinam (Cas no: 79622-59-6) Acute Inhalation Toxicity Category 4, H332; Aquatic Acute Category 1, H400; Aquatic Chronic Category 1, H410; Eye Damage Category 1, H318; Skin Sensitizer Category 1A, H317; Reproductive Toxicity Category 2, H361d. (50 % w/v).

FIRST AID MEASURES

In case of accident or if you feel unwell seek medical advice immediately and show this LABEL where possible.

INHALATION:	<ul style="list-style-type: none">Remove the victim from immediate source of exposure. Move victim to fresh air, if it can be done safely, and keep comfortable. If victim's breathing has stopped, perform artificial respiration.
SKIN:	<ul style="list-style-type: none">Administer oxygen if victim's breathing is difficult or irregular. Get medical help.Remove and isolate contaminated clothing, shoes, and leather goods immediately and take a shower.Rinse affected areas with non-abrasive soap or mild detergent and large amounts of running water. Wash contaminated clothing before reuse. Get medical help if irritation develops and persists.
EYES:	<ul style="list-style-type: none">Rinse eyes IMMEDIATELY with clean running water for at least 15 minutes, while holding eyelids apart.Remove contact lenses after 5 minutes if present and easy to do. Continue rinsing while holding eyelids apart. Seek medical help if irritation continues.
INGESTION:	<ul style="list-style-type: none">If swallowed, DO NOT induce vomiting, unless instructed to do so by poison control center or doctor.Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person. If vomiting does occur, keep on giving fluids. Get medical help.
NOTE TO PHYSICIAN:	<ul style="list-style-type: none">There is no specific antidote. All treatments should be based on observed signs and symptoms of distress in the patient.
POTENTIAL HEALTH EFFECTS, ACUTE AND DELAYED:	<ul style="list-style-type: none">Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.

RESISTANCE WARNING

For resistance management, **InFluanz 500 SC** is a FRAC group code (29) fungicide. Any fungal population may contain individuals (strains) naturally resistant to **InFluanz 500 SC** and other FRAC group code (29) fungicides. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungal strains may not be controlled by **InFluanz 500 SC** or any other group code (29) fungicides.

To delay fungicide resistance:

- ▶ avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with registered products from different fungicide group codes,
- ▶ for tank mixing or alternation with products in other fungicide group codes, refer to applicable individual product labels,
- ▶ integrate other control methods (chemical, cultural, biological) into disease control programmes.

InFluanz 500 SC should always be applied as a preventative measure. Apply **InFluanz 500 SC** within a spray programme with registered fungicides from other chemical classes. Apply **InFluanz 500 SC** in rotation or in mixture with fungicides from different cross-resistance groups with satisfactory efficacy against the target pathogens. When targeting high-risk pathogens or areas where reduced sensitivity of target pathogens has been documented: (i) Apply **InFluanz 500 SC** in mixture whenever possible. (ii) If used solo, strict rotation is required with fungicides from different cross resistance groups. (iii) Limit the number of **InFluanz 500 SC** applications to maximum 50 % of the total applications in a cropping season irrespective of the target disease(s). Soil applications of **InFluanz 500 SC** should be considered as part of the total number of allowed applications if it provides activity against foliar pathogens (FRAC recommendations, 2021).

MODE OF ACTION

Fluazinam is a 2,6-dinitro-aniline fungicide (FRAC group 29). The mode of action includes the uncoupling of oxidative phosphorylation at several metabolic pathways within the fungal cell (mitochondria), inhibiting spore germination and the development of infection structures.

USE RESTRICTION

- It is important that **InFluanz 500 SC** is applied preventatively, before symptoms appear, as prescribed in the application table.
- Adhere to the dosage rates recommended on the label, DO NOT reduce dosage rates.
- **InFluanz 500 SC** must be applied as a full cover spray in the field/orchard for the preventative control of foliar pathogens.
- Should it rain within two (2) hours after application, the application must be repeated.
- Protection provided by fungicides, especially under high-risk conditions, will not always be complete, especially against potato late blight. Disease progression will however be significantly delayed with a well-timed spray programme.

DIRECTIONS FOR USE – USE ONLY AS DIRECTED

COMPATIBILITY:

InFluanz 500 SC is generally compatible with fungicides and non-ionic adjuvants with spreading and penetrating properties. The compatibility of **InFluanz 500 SC** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. It is possible that formulations may change from time to time. It is therefore recommended that a small-scale physical compatibility test be done prior to the tank mixture being made. Always consult the labels of products to be tank mixed with **InFluanz 500 SC**.

MIXING INSTRUCTIONS:

Shake the InFluanz 500 SC container well before use. Replace cap directly after use. Half-fill the spray tank with clean water and ensure continuous agitation. Only use water suitable for irrigation and avoid using water with high levels of chlorine. Add the required quantity of **InFluanz 500 SC** to the mixing tank, while agitation is continued.

Pre-mix InFluanz 500 SC as follows:

Observe the following formulation mixing sequence if other products will be tank mixed with **InFluanz 500 SC**: buffer/acidifier, wettable powders, water dispersible granules, soluble liquids, suspension concentrates and emulsifying concentrates last.

- Pre-mix each product separately with a small volume of water before adding it to the spray tank.

Add the pre-mixture to the water and fill the tank to the required volume with clean water while maintaining agitation, to ensure thorough mixing of the spray mixture, before and during application. **TANK MIXTURES MUST BE SPRAYED OUT IMMEDIATELY AND NOT ALLOWED TO STAND IN THE SPRAY TANK OVERNIGHT.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

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 after application.

APPLICATION TABLE		
CROP and DISEASE	DOSAGE	REMARKS
APPLES Scab (<i>Venturia</i> spp.)	70 mℓ/100 ℓ	Before use, refer to the RESISTANCE WARNING above, as recommended by FRAC (2021). <ul style="list-style-type: none"> • Commence a preventative spray programme, with 7-day intervals, at green tip, up to 75 % petal fall – the primary infection period, or when conditions are favourable for primary scab development. • During the post – 75 % petal fall stage, apply the spray programme with 10 – 14-day intervals. • During weather conditions conducive to infections, revert to 7-day spray intervals. • For optimum control, include InFluanz 500 SC in a preventative control programme between 25 % flowering to early fruit set. • Apply a maximum of six (6) InFluanz 500 SC treatments within a preventative spray programme with no more than three (3) sequential applications of InFluanz 500 SC.
<p>Water volume (ℓ) per hectare (ha) required for high volume application using tree row volume (TRV) calculation:</p> <ul style="list-style-type: none"> • TRV (Green tip to +/- 30 % blossom) $\ell \text{ water/ha} = [(Tree \text{ Height} \times Tree \text{ Diameter} \times 937)/Row \text{ Width}] \times 60 \%$ • TRV (Full blossom to +/- middle November) $\ell \text{ water/ha} = [(Tree \text{ Height} \times Tree \text{ Diameter} \times 937)/Row \text{ Width}] \times 80 \%$ • TRV* (Full leaf) $\ell \text{ water/ha} = (Tree \text{ Height} \times Tree \text{ Diameter} \times 937)/Row \text{ Width}$ <p>Use the above formula to calculate the required spray volume of InFluanz 500 SC per hectare. It is important that the correct amount of InFluanz 500 SC per hectare is applied.</p> <p>Low Volume Application: When a low volume spray is used, use the same amount of InFluanz 500 SC per hectare as calculated for high volume application. *Tree Row Volume (TRV) formula described by Unrath (Deciduous Fruit Grower Nov. 1986)</p>		
POTATOES Late blight (<i>Phytophthora infestans</i>)	400 mℓ/ha	Apply a maximum of six (6) InFluanz 500 SC applications in a full cover spray (both sides of the leaves must be covered), in a 500 ℓ spray mix per hectare, within a preventative spray programme with no more than three (3) sequential applications of InFluanz 500 SC . In regions with reported resistance, limit InFluanz 500 SC to 50 % of applications, and apply in mixtures with other registered fungicides with different modes of action, refer to the RESISTANCE WARNING above. <p>Begin a preventative late blight spray programme with the onset of disease promoting weather conditions and ensure complete coverage of the foliage and stems. In the absence of conducive weather conditions, the first application should be made at the beginning of row closure. Continue with the spray programme until full haulm desiccation. Lift crop only 10 days after the haulms are killed. To protect the tubers from late blight, a full haulm desiccation programme must be followed.</p> <p>Recommended InFluanz 500 SC application intervals:</p> <ul style="list-style-type: none"> • Every 14 days (low risk) • Every 7 – 10 days (high risk, two consecutive humid days or irrigated field) • Every 5 – 7 days (severe risk)
Late blight (<i>Phytophthora infestans</i>) AND Early blight (<i>Alternaria solani</i>)	400 mℓ/ha PLUS 300 mℓ/ha azoxystrobin 250 SC* fungicide	Refer to the RESISTANCE WARNING above. <ul style="list-style-type: none"> • Begin a preventative spray programme one or two weeks after plant emergence. • Use alternative fungicides registered on potatoes up to week 5 (adhering to label instructions of the specific fungicide).

		<ul style="list-style-type: none"> • Apply InFluanz 500 SC tank mixed with an azoxystrobin 250 SC containing fungicide, i.e., *Obstructo 250 SC, from week 6 (early flowering), alternating with a chlorothalonil 720 SC fungicide at weekly intervals. • Continue with this weekly spray programme, alternating between the InFluanz 500 SC/azoxystrobin 250 SC tank mix (weeks 6, 8 and 10) and chlorothalonil 720 SC (weeks 7, 9 and 11) applications. • Revert to alternative fungicides registered on potatoes until full haulm desiccation. Lift crop only 10 days after the haulms are killed. <p>Note: DO NOT apply an azoxystrobin 250 SC containing fungicide as part of the first or the last application in the spray programme and do not exceed more than three (3) InFluanz 500 SC/azoxystrobin 250 SC tank mix applications. If early blight has already developed, do not apply azoxystrobin 250 SC, rather apply an alternative registered systemic product such as *TebuCure 250 EW. Apply at least two (2) treatments using the systemic product, thereafter, revert to the recommended preventative spray programme.</p>
Powdery scab (<i>Spongospora subterranea</i>)	4000 mL/ha	<p>Apply InFluanz 500 SC as a broadcast spray application, 300 – 500 l spray mix per hectare, onto a moist soil surface prior to planting. Make use of a power harrow or rotary hoe, within 2 hours of application, to ensure sufficient incorporation into the soil to a depth of 15 cm.</p> <p>If application is done at planting, make sure that InFluanz 500 SC is distributed evenly within the tuber initiation and root zone.</p> <p>Note: It is difficult to manage soilborne pathogens effectively, and complete control of powdery scab is not possible. It is thus very important to only plant tubers certified as powdery scab-free. It is of utmost importance to ensure thorough and even incorporation of InFluanz 500 SC into the soil as the level of control achieved is directly correlated to the even distribution of the product in the target zone.</p> <p>Conducive conditions for powdery scab (vector and carrier of potato mop-top virus) are cool, moist soil conditions, such as obtained with irrigation. Under warmer, drier conditions pustule development occur on tubers.</p>

* **Obstructo 250 SC** (Act 36 of 1947, Reg. No. L9323) and **TebuCure 250 EW** (Act 36 of 1947, Reg. No. L7992) are manufactured by ICA International Chemicals and is registered for the use on potatoes.

InFluanz 500 SC

Wet Nr. 36 van 1947
SA Reg. Nr. L11437

'n Suspensie konsentraat kontak swamdoder, vir die voorkomende beheer van siektes op gewasse soos gelys.

AKTIEWE BESTANDELE:

Fluasinam 500 g/l

GEREGISTREER DEUR:

ICA International Chemicals (Pty) Ltd., Reg. Nr. 2001/013319/07
Plankenstraat 28 • Plankenbrug Industrieel • Stellenbosch • 7600 • Suid-Afrika
Tel. +27-21 886-9812 • www.icaonline.co.za

WAARSKUWINGS

Skadelik indien ingeasem
Mag allergiese velreaksie veroorsaak
Veroorsaak ernstige oogskade
Vermoede dat dit vrugbaarheid of die ongebore kind beskadig
Baie giftig vir waterlewende organismes met langdurige gevolge

ONTHOUDINGS PERIODES (Minimum aantal dae tussen laaste toediening en oes):

Aartappels 7 Dae
Appels 28 Dae

Nakoming van hierdie onthoudingsperiodes en toedieningsmetodes sal verseker dat die plaaslike maksimum residu limiete (MRL) nie oorskry word nie, maar mag dalk nie voldoen aan die invoervereistes van ander lande nie. Indien die gewas wat behandel gaan word, bestem is vir uitvoer, raadpleeg die betrokke in- of uitvoerder rakende die gebruik van hierdie produk, die MRL en aanbevole onthoudingsperiodes. Alhoewel **InFluanz 500 SC** as gewasveilig beskou word op meeste van die belangrike kultivars, beteken dit nie dat 'n meer sensitiewe kultivar in die toekoms op die mark kan kom nie. **InFluanz 500 SC** moet eers op **nuwe kultivars** getoets word voordat dit oor groot areas aangewend word.

HERBETREDINGSINTERVAL: Moenie behandelde gebied betree alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander produkte wat nie op die etiket aangedui is nie en die voorkoms van weerstand teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effekte op mens of dier of vir 'n gebrek aan doeltreffendheid, as gevolg van die versuim van die gebruiker om die etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in geval van enige onsekerheid.

VOORSORGMATREËLS

Indien mediese advies nodig word, hou die produkhouer of -etiket byderhand.
Hou buite bereik van kinders.
Lees sorgvuldig en volg alle instruksies.
Vermy die inaseming van stuifsel, dampe en spuitstof.
Gebruik slegs buitenshuis of in 'n goed geventileerde area.
Besoedelde werksklere moet nie buite die werksplek toegelaat word nie.
Vermy vrystelling in die omgewing.
Dra beskermende handskoene, beskermende klere, oog- en gesigbeskerming.
Was hande en blootgestelde vel deeglik na hantering. Moet nie aan oë raak nie.
INDIEN OP VEL: Was met baie water en seep.
INDIEN INGEASEM: Neem slagoffer na vars lug en hou gemaklik vir asemhaling.
INDIEN IN OË: Spoel onmiddellik met water vir etlike minute. Verwyder kontaklense, indien aanwesig en maklik om te verwyder. Hou aan met spoel.
Vir spesifieke behandeling sien noodhulp afdeling op hierdie etiket.
Indien velirritasie of uitslag ontstaan: Kry mediese hulp.
INDIEN blootgestel of besorg, verkry mediese advies.
Trek alle besoedelde klere uit en was dit voor hergebruik.
Maak stortsel bymekaar.
Berg agter slot en grendel.
Raak ontslae van inhoud en houer in ooreenstemming met nasionale regulasies.

Voorkom die wegdryf van spuitnewel na ander gewasse, weiding, riviere, damme en ander gebiede wat nie behandel word nie.
Maak alle toerusting deeglik skoon na gebruik en gooi afvalwater weg sonder om die omgewing te besoedel.

SPOEL DIE LEË HOUER DRIE MAAL SOOS VOLG: Keer die leë houer om oor die spuit- of mengtenk en dreineer vir minstens 30 sekondes totdat die vloeit tot 'n gedrup verminder het. Spoel daarna die leë houer drie keer uit met vars water, teen 'n kwart van die houer se volume, en giet die spoelwater in die spuit- of mengtenk. Kap gate in die drie keer gespoelde houer, waarna dit aan 'n goedgekeurde versamelaar of verwerker oorhandig moet word (www.croplife.co.za). Moenie die houer begrawe, verbrand of aan enige ander partye skenk wat dit as houer vir voedsel of drinkgoed mag gebruik nie.

RELEVANTE STOWWE:

Fluasinam (Cas no: 79622-59-6) Akute Giftigheid Inaseming Kategorie 4, H332; Waterlewend Akueel Kategorie 1, H400; Waterlewend Kronies Kategorie 1, H410; Ernstige Oogskade Kategorie 1, H318; Vel Allergie Kategorie 1A, H317; Reproductiewe Toksiteit Kategorie 2, H361. (50 % m/v).

NOODHULP BEHANDELING

In geval van 'n ongeluk of as jy onwel voel, verkry onmiddellik mediese advies en wys hierdie ETIKET waar moontlik

- INASEMING:**
- Neem die slagoffer weg van die onmiddellike bron van blootstelling. Verskuif die slagoffer na vars lug as dit veilig gedoen kan word en hou gemaklik. Indien die slagoffer ophou asemhaal, pas kunsmatige asemhaling toe.
 - Dien suurstof toe as die slagoffer se asemhaling moeilik of onreëlmatig is. Verkry mediese hulp.
- VEL:**
- Verwyder en isoleer besmette klere, skoene en leergoedere dadelik en stort.
 - Spoel aangetaste areas (vel) onmiddellik met nieskurende seep of sagwerkende wasmiddel en groot hoeveelhede lopende water. Was besmette klere voor hergebruik. Kry mediese hulp indien irritasie ontwikkel en voortduur.
- OË:**
- Spoel oë versigtig met skoon lopende water vir ten minste 15 minute terwyl die ooglede vanmekaar gehou word.
 - Verwyder kontaklense na 5 minute indien aanwesig en maklik om te doen. Hou aan met spoel terwyl ooglede vanmekaar gehou word. Kry mediese hulp indien irritasie voortduur.
- OPNEMING:**
- Indien ingesluk, MOENIE vomering induseer nie, tensy 'n gifsentrum of dokter opdrag gee om dit te doen.
 - Laat die persoon slukkies water neem indien dit moontlik is om te sluk. Moet nooit iets per mond aan 'n bewustelose persoon gee nie. Indien die persoon wel vomeer, hou aan om vloeistowwe te gee. Verkry mediese hulp.
- NOTA AAN GENEESHEER:**
- Daar is nie 'n spesifieke teenmiddel nie. Alle behandeling moet gebaseer word op waargenome tekens en simptome van nood by die pasiënt.
- MOONTLIKE GESONDHEIDSGEVLGE, AKUUT EN VERTRAAGD:**
- Gevolge van blootstelling (inaseming, opneming of velkontak) aan stof kan vertraag wees.

WEERSTANDSWAARSKUWING

Vir weerstandsbestuur, **InFluanz 500 SC** is 'n FRAC groep kode (29) swamdoder. Enige swam populasie mag individue (stamme) insluit wat 'n natuurlike weerstand teen, **InFluanz 500 SC**, of enige ander FRAC groep kode (29) swamdoders het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swam populasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur, **InFluanz 500 SC** of enige ander groep kode (29) swamdoders beheer word nie.

Om weerstand te vertraag:

- vermy die herhaaldelike gebruik van swamdoders met dieselfde groep kode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende swamdoder groepcodes,
- raadpleeg toepaslike individuele produketikette wanneer daar afgewissel word, of tenkmengsels gemaak word, met produkte in ander swamdoder groepcodes,
- integreer ander beheermaatreëls (chemies, verbouing, biologies) in swamdoder programme.

InFluanz 500 SC moet altyd as 'n voorkomende maatreël toegedien word. Dien **InFluanz 500 SC** toe binne 'n spuitprogram met geregistreerde swamdoders van ander chemiese klasse. Dien **InFluanz 500 SC** toe in rotasie of in mengsel met swamdoders van verskillende kruisweerstandsgroepe met bevredigende doeltreffendheid teen die teikenpatogene.

Wanneer hoë-risiko patogene of gebiede waar verminderde sensitiviteit van die teikenpatogene gedokumenteer is: (i) Dien **InFluanz 500 SC** toe in mengsels waar moontlik. (ii) Streng rotasie met swamdoders van verskillende kruisweerstandsgroepe word vereis, indien **InFluanz 500 SC** alleen gebruik word. (iii) Beperk die aantal **InFluanz 500 SC** toedienings tot maksimum 50 % van die totale toedienings in 'n gewasseisoen, ongeag die teikensiekte(s). Grondtoedienings van **InFluanz 500 SC** moet as deel van die totale aantal toegelate toedienings oorweeg word indien dit beheer teen blaarpatogene verskaf (FRAC-aanbevelings, 2021).

WERKINGSWYSE

Fluasinam is 'n 2,6-dinitro-anilien swamdoder (FRAC groep 29). Die werkingswyse sluit in die ont koppeling van oksidatiewe fosforilering by verskeie metaboliese paaie binne die swamsel (mitochondria), dit inhibeer spoorontkieming en die ontwikkeling van infeksiestrukture.

GBRUIKSBEPERKINGS

- Dit is belangrik dat **InFluanz 500 SC** voorkomend toegedien word, voordat simptome voorkom, soos voorgeskryf in die toedieningstabel.
- Volhou by die dosisse wat op die etiket aanbeveel word, MOENIE die dosis verminder nie.
- **InFluanz 500 SC** moet as 'n voldebespuiting in die veld/boord toegedien word vir die voorkomende beheer van blaarpatogene.
- Herhaal toediening indien dit binne twee (2) ure na aanwending reën.
- Beskerming deur swamdoders, veral onder hoë-risiko toestande, sal nie altyd volledig teen veral aartappel laatroes wees nie. Siekte ontwikkeling sal egter aansienlik vertraag word met 'n goeie tydsbestuur spuitprogram.

VERENIGBAARHEID:

InFluanz 500 SC is oor die algemeen verenigbaar met swamdoders en nie-ioniese byvoegingsmiddels met verspreidende en penetrerende eienskappe. Die verenigbaarheid van **InFluanz 500 SC** met produkte hang af van die formulاسie van die betrokke produkte asook die kwaliteit van die water wat gebruik gaan word. Dit is moontlik dat formulاسies van tyd tot tyd kan verander, en dus word daar aanbeveel dat 'n kleinskaalse fisiese verenigbaarheidstoets uitgevoer word, voordat 'n tenkmengsel gemaak word. Raadpleeg altyd die individuele produk etikette voor mengsels met **InFluanz 500 SC** gemaak word.

MENGINSTRUKSIES:

Skud die InFluanz 500 SC houer deeglik voor gebruik. Plaas prop terug op houer direk na gebruik. Vul die spuittenk halfvol met skoon water, wat geskik is vir besproeiing en maak seker dat spuittenk deurentyd gemeng word. Vermyn die gebruik van water met 'n hoë chloor inhoud. Voeg die benodigde hoeveelheid **InFluanz 500 SC** by die spuittenk, terwyl dit geroeer word.

Meng InFluanz 500 SC vooraf as volg:

Let op die volgende mengvolgorde van die formulاسies indien ander produkte saam met **InFluanz 500 SC** in 'n tenkmengsel toegedien word: Buffer/versuurder, benatbare poeiers, waterdispergeerbare korrels, wateroplosbare vloeistof, suspensie konsentraat, en emulgeerbare konsentrate laaste.

- Meng elke produk afsonderlik met 'n klein hoeveelheid water voordat dit in die spuittenk gevoeg word.

Voeg die mengsel by die tenk en vul met skoon water tot by finale volume. Maak seker dat die spuittenk voordurend gemeng word om vermening te verseker voor en tydens toediening. **DIE TENKMENGSSEL MOET ONMIDDELLIK UITGESPUIT WORD EN NIE TOEGELAAT WORD OM OORNAG IN DIE SPUITTEK TE STAAN NIE.** Spuit toerusting moet deeglik uitgespuit/skoongemaak word na afloop van toediening.

TOEDIENING:

• Maak seker dat die spuittoerusting korrek gekalibreer is en gaan gereeld na om seker te maak dat die toediening egalig en akkuraat is. Herhaal toediening indien dit binne twee (2) ure na aanwending reën.

TOEDIENINGSTABEL		
GEWAS / PES	DOSIS	AANBEVELINGS
AARTAPPELS Laatroes (<i>Phytophthora infestans</i>)	400 mℓ/ha	Dien 'n maksimum van ses (6) InFluanz 500 SC toedienings as 'n voldekbepuiting (albei kante van die blare moet bedek word), in 500 ℓ spuitmengsel per hektaar toe, binne 'n voorkomende spuitprogram met nie meer as drie (3) opeenvolgende toedienings van InFluanz 500 SC nie. In areas met gerapporteerde weerstand, beperk InFluanz 500 SC tot 50 % van die aanwendings, en dien toe in mengsels met ander geregistreerde swamdoders met verskillende maniere van werking, verwys na die WEERSTANDSWAARSKUWING hierbo. Begin 'n voorkomende laatroes spuitprogram met die aanvang van gunstige weerstoestande vir siekte ontwikkeling en verseker volledige bedekking van die blare en stele. In die afwesigheid van gunstige weerstoestande, moet die eerste bespuiting toegedien word net voor die rye toemaak. Gaan voort met die spuitprogram tot volle halmuitdroging. Lig die gewas slegs 10 dae nadat die halms uitgedroog het. Om die knolle teen laatroes te beskerm, moet 'n volledige program vir halmuitdroging gevolg word. Aanbevole InFluanz 500 SC toedieningsintervalle: <ul style="list-style-type: none"> • Elke 14 dae (lae risiko) • Elke 7 – 10 dae (hoë risiko, twee opeenvolgende vogtige dae of aartappels onder besproeiing) • Elke 5 – 7 dae (uiters hoë risiko)
Laatroes (<i>Phytophthora infestans</i>) EN Vroeë-roes (<i>Alternaria solani</i>)	400 mℓ/ha PLUS 300 mℓ/ha asoksitrobien 250 SC* swamdoder	Verwys na die WEERSTANDSWAARSKUWING hierbo. <ul style="list-style-type: none"> • Begin 'n voorkomende spuitprogram een of twee weke na plantopkoms. • Gebruik alternatiewe geregistreerde swamdoders tot week 5 (volg die etiketaanwysings van die spesifieke swamdoder). • Dien InFluanz 500 SC in 'n tenkmengsel met 'n asoksitrobien 250 SC bevattende swamdoder, soos *Obstructo 250 SC, toe vanaf week 6 (vroeë blom), en wissel af met 'n chlorothalonil 720 SC swamdoder met weeklikse tussenposes. • Gaan voort met die bogenoemde weeklikse spuitprogram, afwisselend tussen die InFluanz 500 SC/asoksitrobien 250 SC tenkmengsel (week 6, 8 en 10) en chlorothalonil 720 SC (week 7, 9 en 11) toedienings. • Keer terug na alternatiewe swamdoders wat op aartappels geregistreer is tot volle halmuitdroging. Lig die gewas slegs 10 dae nadat die halms uitgedroog het.

		<p>NOTA: MOENIE 'n asoksitrobie 250 SC bevattende swamdoder as die eerste of laaste toediening in 'n spuitprogram toedien nie. Moenie meer as drie (3) InFluanz 500 SC/asoksitrobie 250 SC tenkmengsels toedien nie. Moenie azoxystrobin 250 SC toedien indien vroeë roes reeds ontwikkel het nie, dien eerder 'n alternatiewe geregistreerde sistemiese produk soos *TebuCure 250 EW toe. Dien ten minste twee (2) behandelings toe met die sistemiese produk, en keer daarna terug na die aanbevole voorkomende spuitprogram.</p>
Poeieragtige skurf (<i>Spongospora subterranea</i>)	4000 mℓ/ha	<p>Dien InFluanz 500 SC toe teen 300 – 500 ℓ spuitmengsel per hektaar, op 'n klam grondoppervlak voor plant. Maak binne 2 uur na toediening gebruik van 'n kraged of rotorskoffel om voldoende inwerking in die grond tot 'n diepte van 15 cm te verseker.</p> <p>Indien die toediening tydens plant aangewend word, maak seker dat InFluanz 500 SC eweredig binne die knolinisiasie- en wortelones versprei word.</p> <p>Nota: Dit is moeilik om grondgedraagde patogene doeltreffend te bestuur, en volledige beheer van poeieragtige skurf is nie moontlik nie. Dit is baie belangrik om slegs knolle te plant wat as poeierskurfvry gesertifiseer is. Dit is van uiterste belang om deeglike en egalige inwerking van InFluanz 500 SC in die grond te verseker aangesien die vlak van beheer wat bereik word direk gekorreleer is met die eweredige verspreiding van die produk in die teikensone.</p> <p>Bevorderende toestande vir poeieragtige skurf (en vir die vektor en draer van aartappel mop-top-virus), is koel, klam grondtoestande, soos verkry met besproeiing. Onder warmer, droër toestande ontwikkel puisies wat oopbars op die knolle.</p>
APPELS Skurfsiekte (<i>Venturia</i> spp.)	70 mℓ/100 ℓ	<p>Voor gebruik, verwys na die WEERSTANDSWAARSKUWING hierbo, soos aanbeveel deur FRAC (2021).</p> <ul style="list-style-type: none"> • Begin 'n voorkomende beheerprogram met 7-dag intervalle, by groenpunt tot en met 75 % blomblaarval – die primêre infeksie-periode, of wanneer toestande gunstig is vir primêre skurfsiekte ontwikkeling. • Dien die voorkomende beheerprogram gedurende die na – 75 % blomblaarval stadium toe in 10 – 14-dag intervalle. • Tydens weerstoestande wat bevorderlik is vir infeksies, keer terug na 7-dag spuitintervalle. • Vir optimale beheer, sluit InFluanz 500 SC in 'n voorkomende beheerprogram tussen 25 % blom tot vroeë vrugset in. • Dien 'n maksimum van ses (6) InFluanz 500 SC behandelings binne 'n voorkomende spuitprogram toe. Moet nie meer as drie (3) opeenvolgende toedienings van InFluanz 500 SC toedien nie.
<p>Water volume (ℓ) per hektaar (ha) benodig vir hoë-volume aanwending volgens boomry volume (BRV) berekening:</p> <ul style="list-style-type: none"> • BRV (Groenpunt tot +/- 30 % blom) ℓ water/ha = [(Boomhoogte X Boomdeursnit X 937)/Rywydte] X 60 % • BRV (Volblom tot +/- middel November) ℓ water/ha = [(Boomhoogte X Boomdeursnit X 937)/Rywydte] X 80 % • BRV* (Volle Blad) ℓ water/ha = (Boomhoogte X Boomdeursnit X 937)/Rywydte <p>Gebruik die formule hierbo om die spuitvolume van InFluanz 500 SC per hektaar benodig te bereken. Dit is belangrik dat die korrekte hoeveelheid InFluanz 500 SC per hektaar toegedien word.</p> <p>Lae Volume Aanwending: Gebruik dieselfde hoeveelheid InFluanz 500 SC per hektaar vir lae-volume aanwending soos bereken vir hoë-volume aanwending. *Boom-ry-volume-metode (BRV) formule soos beskryf deur Unrath (Sagte Vrugte Boer, November 1986).</p>		

***Obstructro 250 SC** (Wet 36 van 1947, Reg. Nr. L9323) en **TebuCure 250 EW** (Wet 36 van 1947, Reg. Nr. L7992) word deur ICA International Chemicals vervaardig en is geregistreer vir die gebruik op aartappels.