

ELEVATE[®] 360 SC

INSECTICIDE

Registration Number/Registrasie Nommer: L10484 ACT No. 36 of 1947 / WET Nr. 36 of/van 1947

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

IRAC: GROUP	5A/18	INSECTICIDE
A SUSPENSION CONCENTRATE CONTACT AND STOMACH INSECTICIDE (MOULT ACCELERATING COMPOUND) FOR THE CONTROL OF INSECT PESTS ON AGRICULTURAL CROPS AS LISTED.	'N SUSPENSIEKONSENTRAAT KONTAK EN MAAGINSEKDODER (VERVELLINGSVERSNELLINGSMIDDEL) VIR DIE BEHEER VAN INSEKPLAE IN LANBOUGEWASSE SOOS AANGEDUI.	



HAZARD STATEMENTS:

May cause an allergic skin reaction.
Suspected of damaging fertility.
Very toxic to aquatic life with long lasting effects.



PRECAUTIONARY STATEMENTS:

Obtain, read and follow all safety instructions before use.
Avoid breathing dust/fume/gas/mist/vapour/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
If exposed or concerned, get medical advice.
Collect Spillage.
Dispose of contents/container in accordance with applicable regulations.



WARNING

Active Ingredient/Aktiewe Bestanddeel

Spinetoram/methoxyfenozide..... 360 g/l Spinetoram/methoxyfenozide
Net volume L Netto volume

REGISTRATION HOLDER / REGISTRASIEHOUER
CORTEVA AGRISCIENCE RSA (PTY) LTD / (EDMS) BPK
REG NO 1991/003030/07
Lakefield Office Park, Block A, 2nd Floor
272 West Avenue, CENTURION, 0157 South Africa
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Batch No. Lot Nr.
Date of Manufacture Datum van Vervaardiging
Expiry Date Vervaldatum

UN NO: 3082

Poisons Helpline: +27(0)861-555-777
Griffon Poison Information Centre: +27(0)82-446-8946
Local Emergency No: +27(0)82-895-0621 (SA only)
24 Hour Emergency Tel No: +32-3-575-5555
Information Hotline Tel No: +27(0)12 683-5700

ELEVATE[®] 360 SC/2023-05-08

WARNINGS:

HAZARD STATEMENTS:

- May cause an allergic skin reaction.
- Suspected of damaging fertility.
- Very toxic to aquatic life with long lasting effects.

Withholding period - Minimum time between last application and harvest:

Pears 7 days
Apples 7 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits. However, the import tolerances of other countries may differ, and local residue limits and withholding periods may possibly not comply with those of other countries. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, Maximum Residue Limits and recommended withholding periods.

- Handle with care.
- May cause slight eye irritation.
- This product is moderately toxic to fish and toxic to aquatic invertebrates. Do not apply directly to open water.
- Store in a cool dry place, away from food and feedstuffs.
- Keep out of the reach of children, uninformed person and animals.
- Beneficial Insects:
 - ❖ This product is toxic to bees when exposed to direct spray, or wet spray deposit.
 - ❖ Do not apply directly to foraging bees, or bee colonies.
 - ❖ **ELEVATE® 360 SC** will not interfere with the activities of honeybees once the spray deposit has dried.
 - ❖ Apply only during night to crops in flower or where other foraging vegetation is within 500 m from the spraying area.
 - ❖ Allow at least 12 hours between application and foraging period of bees.

Co-ordinate in this regard with neighbours, beekeepers and local extension services when applying in the vicinity of crops in flower.

Parasitoids: "Slightly harmful"
Predatory Mites: "Harmless to slightly harmful to some species"
Predatory beetles eg. Coccinellidae: "Harmless"
Neuroptera: "Harmless"
Lacewings: "Harmless"
Predatory bugs: "Harmless"

Re-entry interval: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

DISCLAIMER:

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 pest against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore, does not accept responsibility for damage to crops, vegetation, the environment, or harm to man or animal, or for lack of performance of the remedy concerned, due to failure of the use 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:

PRECAUTIONARY STATEMENTS:

Obtain, read and follow all safety instructions before use.
Avoid breathing dust/fume/gas/mist/vapour/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
If exposed or concerned, get medical advice
Collect Spillage
Dispose of contents/container in accordance with applicable regulations.

Store in original labeled container, tightly closed and in a locked, dry, cool, and well-ventilated area, well away from foodstuffs.

Avoid inhalation of spray mist.

Wash with soap and water after use or accidental skin contact.

Wear gloves and face shield when handling.

Avoid contamination of skin and eyes. In case of accidental contact with the eyes, wash with running water for at least 15 minutes. Get medical attention if irritation persists.

Do not eat, drink, or smoke whilst mixing or applying.

Wash hands and face before eating, drinking, smoking, or using the toilet.

Avoid spray drift onto adjacent crops, grazing, rivers, and dams.

Clean all spray equipment before using for other remedies and dispose of wash water in areas already sprayed where it will not contaminate crops, grazing, rivers, dams, and water sources.

Invert the empty container for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse 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 contents of the spray tank before destroying the container by perforation, flattening, and burying and do not use for any other purpose.

Prevent contamination of food, feedstuffs, drinking water and eating utensils by handling, storage, or disposal.

RELEVANT SUBSTANCES:

COMPONENT	CAS No.	Concentration (% w/w)
Methoxyfenozide	161050-58-4	28,36
Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0)	935545-74-7	5,61
Naphthalenesulfonic acid, formalde-hyde ammonium salt copolymer	9069-80-1	>= 3 - < 10
1,2-benzisothiazol-3(2H)-one	2634-33-5	>= 0,025 - < 0,05

FIRST AID MEASURES:

Inhalation

Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration, if by mouth-to-mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

Skin contact

Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly.

Eye contact

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

A suitable emergency eye wash facility should be available in work area.

Ingestion

No emergency medical treatment is necessary.

DIRECTIONS FOR USE:

Use only as indicated

Shake well before use

ELEVATE® 360 SC is a suspension concentrate, which should be mixed with water and applied as a foliar spray with ground equipment equipped for conventional insecticide application. **ELEVATE® 360 SC** works by both contact and ingestion activity. Exposed larvae stop feeding immediately but can take up to 3 days to mortality. Proper coverage of target area is important.

Insecticide Resistance Management (IRM)

The classification scheme of insecticides is based on “mode of action” **ELEVATE® 360 SC** is classified as a spinosyn (IRAC subgroup 5A) and methoxyfenozide (IRAC group 18) insecticide. Do not apply more than 4 applications of **ELEVATE® 360 SC** to any crop in any one season. Use insecticides from a different chemical group if more than four (4) applications are required.

Any insect population may contain individuals naturally resistant to **ELEVATE® 360 SC** and other spinosyns and methoxyfenozide. The resistant individuals will eventually dominate the insect population if these insecticides are used repeatedly over long periods or to consecutive generations. **ELEVATE® 360 SC** or other spinosyn and methoxyfenozide insecticides may not control these resistant insects. Local experts should be consulted for resistance strategies and specific recommendations. It is recognised that resistance of insects and mites to insecticides and acaricides can also result from enhanced metabolism, reduced penetration or behavioural changes that are not linked to any site of action classification but are specific for individual chemicals or chemical groupings. Despite this, alternation of compounds from different chemical classes remains a viable anti-resistance management technique.

To delay insecticide resistance

- Avoid the exclusive repeated use of insecticides from the same chemical subgroup.
- Do not use less than recommended label rates of any insecticides.
- Target applications preferably against early instar larvae and eggs of the pest whenever possible.
- Include proven cultural and biological control practices within an Integrated Pest Management Programme.

Integrated Pest Management (IPM) Programme:

ELEVATE® 360 SC can be recommended for IPM programmes in various crops. **ELEVATE® 360 SC** should be applied when field scouting/monitoring indicates target pest populations have reached the economic threshold. Other than reducing the target pest species as a food source, **ELEVATE® 360 SC** used under GAP, does not have a significant impact on certain parasitic or predaceous insects and mites, including ladybirds, lacewings, assassin bugs, predatory mites, etc. Although **ELEVATE® 360 SC** is classified as “harmful” to Parasitoids, field studies showed a rapid recovery of numbers after application. The feeding activities of these beneficial arthropods will aid in the extended natural control of other insects and reduce the likelihood of secondary pest outbreaks for which additional insecticide treatments may be needed. If **ELEVATE® 360 SC** is tank mixed with any insecticide that reduces its selectivity in preserving beneficial predatory insects, then the full benefit of **ELEVATE® 360 SC** to the IPM programme may be reduced.

MIXING INSTRUCTIONS:

Mixing ELEVATE® 360 SC alone:

Fill the spray tank with water to about half of the total spray volume required. Start agitation and add the required amount of **ELEVATE® 360 SC** to the spray tank. Continue mixing and agitation while filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source.

Compatibility, pH and tank mixing:

Do not apply **ELEVATE® 360 SC** in muddy water. Although the pH of the spray mixture does not have an effect on the initial knockdown performance of **ELEVATE® 360 SC**, a low pH value (< pH 5) of the spray mixture will decrease the residual performance. Buffer agents are generally not needed. Acidifiers or products that will acidify the spray mixture below pH 5 (e.g., phosphonates, high rates of foliar fertilizers, etc.) should be avoided or buffered back to pH 5 - 8. **ELEVATE® 360 SC** will perform best at pH 5 - 8.

ELEVATE® 360 SC is compatible with most pesticides used. Compatibility may be influenced by the formulation of other products as well as the quality of spray water. If compatibility is unknown a physical compatibility test (jar test) using relative proportions of tank mix products should always be carried out prior to mixing in the spray tank.

A compatibility test should be done for each different type of foliar fertilizer utilising the mixing water source. Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank mixes. Back flow sparger pipe agitators, at the bottom of the spray tank, generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid mixing air into the spray mixture.

Mixing Sequence for Tank Mixes:

Fill the spray tank with water to approximately one quarter of the total spray volume required. Start agitation. Add different formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for water dispersible granule (dry flowable) (WG) products.

Add different formulation types in the following order:

1. Water dispersible granules (WG). (After pre-mixing with water)
2. Wettable powders (WP) or water dispersible powders (WS) after pre-mixing with water.
3. **ELEVATE® 360 SC** and then other other Suspension concentrates (SC).
4. Capsulated suspensions (CS).
5. Emulsifiable concentrates (EC) or Emulsion oil in water concentrates (EW).
6. Foliar Fertilizers – after pre-mixing with water.

Finish filling the spray tank while maintaining continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, settled materials must be resuspended before spraying is resumed. A back flow sparger agitator at the bottom of the tank is particularly useful for this purpose.

Premixing:

Dispersible granule (WG) and Wettable Powder (WP) formulations may be pre-mixed with water (slurried) and added to the spray tank through a 20 - 35 mesh screen. This procedure assures good initial dispersion of these formulation types.

Rainfastness: Avoid applications when rain is expected within 6 hours of spraying.

APPLICATION

Proper application techniques help ensure thorough spray coverage and the correct dosage necessary to obtain optimum control of insect pests. The following recommendations are provided for effective application of **ELEVATE® 360 SC**. To ensure adequate spray coverage, attention should be given to proper ground speed and calibration as well as conditions such as wind speed, and foliar canopy.

Application for Fruit tree crops:

Use conventional orchard spray equipment correctly calibrated to provide thorough coverage of the target crop and correct rate per hectare.

Deciduous fruit trees:

ELEVATE® 360 SC should be sprayed to deciduous fruit trees using equipment and methods that will ensure proper cover of the target area. Except for situations where high volume applications are specifically recommended, low volume applications (max. 4x) may be considered providing the equipment is suitable or adapted for low volume application and conditions are favourable for optimum coverage of the target area.

Rate per ha should preferably be calculated according to the formula for HVR, using “*Unrath’s Formula*” for “*Tree Row Volume*” (TRV).

$$\text{TRV} = \frac{\text{Tree Height (TH)} \times \text{Tree Width (TW)} \times 937}{\text{Distance between Rows (RW)}} = \text{HVR in liters per ha}$$

*(Tree height and tree width should be measured during summer when trees are in full flush)

Directions for Application Volumes (AV) at different growth stages and the calculation of rate per ha, based on High Volume Requirements (HVR)

Growth Stage	Application Volume
Bud Break to Full Blossom	60 % x HVR
75 % Petal Fall to One Month Later (Mid Season)	80 % x HVR
Mid Season to Post Harvest, Before Leaf Drop	100 % x HVR

$$\text{Rate per ha} = \frac{\text{HVR in } \text{L} / \text{ha} \times \text{Rate per 100 L}}{100}$$

CROP/PEST	DOSAGE/100 L WATER	REMARKS
POME FRUIT, APPLES AND PEARS Codling moth <i>(Cydia pomonella)</i>	50 ml	Apply ELEVATE® 360 SC as a full cover spray. Thorough cover of the target area is essential. Start applications at the beginning of a moth generation or in the case of the first generation, at ¾ petal fall and repeat at 14-day intervals for a maximum of 4 consecutive applications. Although ELEVATE® 360 SC can be used on any generation of Codling Moth, the positioning of ELEVATE® 360 SC will be determined by the specific control strategy that is followed. When application of ELEVATE® 360 SC is aimed at egg hatch (based on a Degree Day Model in orchards under mating disruption) the determination of Biofix and calculation of following egg hatch is of critical importance. Consult your consultant in this regard.

CROP/PEST	DOSAGE/100 L WATER	REMARKS
POME FRUIT, APPLES AND PEARS (cont.)		<p>Resistance Management: To comply with resistance management strategies ELEVATE® 360 SC should be applied to only one generation of Codling Moth per season. Registered products with a different mode of action should be used for the treatment of the other generations of Codling Moth. ELEVATE® 360 SC should not be applied in total more than four (4) times per season on Apples and Pears.</p> <p>If ELEVATE® 360 SC is applied for the control of the last generation of the season, then a product with a different mode of action must be used for control of the first generation in the following season.</p>

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WAARSKUWINGS

RISIKOVERKLARINGS:

Mag moontlike vel allergie veroorsaak.

Mag moontlike skade aan vrugbaarheid verrig.

Uiters giftig vir akwatiese flora en fauna, met langdurige effek.

Onthoudingsperiode - Minimum tyd wat tussen die laaste toediening en oes moet verstryk:

Appels 7 dae
Pere 7 dae

LET WEL: Nakoming van bogenoemde onthoudingsperiodes sal verseker dat die plaaslike vereistes vir Maksimum Residu Limiete nie oorskry word nie. Die invoertolleransies van ander lande mag egter verskil en plaaslike vlakke en onthoudingsperiodes mag dalk nie voldoen aan die vereistes van ander lande nie. Indien die gewas wat behandel gaan word vir uitvoer bestem is, skakel met die betrokke invoerder of uitvoerorganisasie rakende die gebruik van hierdie produk, maksimum residuvereistes en aanbevole onthoudingsperiodes.

- Hanteer die produk versigtig.
- Mag moontlike ligte oogirritasie veroorsaak.
- Matig giftig vir vis en giftig vir waterorganismes. Moenie oor oop waterbronne toedien nie.
- Berg in 'n koel, droë plek en verwyderd vanaf voedsel en veevoer.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Voordelige Insekte:
 - ❖ Hierdie produk is giftig vir bye wanneer hul aan direkte bespuiting, of nat spuitresidu, blootgestel word.
 - ❖ Moenie direk op kolonies of aktiewe bye spuit nie.
 - ❖ Spuit gedurende nag op gewasse in blom of waar 'n gewas binne 500 m van die area wat bespuit moet word, in blom is.
 - ❖ Laat minstens 'n periode van 12 ure tussen toediening en bye aktiwiteit toe.
 - ❖ **ELEVATE® 360 SC** sal nie met byaktiwiteite inmeng na afdroog van spuitreste nie.
 - ❖ Studies het geen nadelige invloed op die bykorwe getoon nie.

Stel bure, byeboere asook plaaslike voorligters in kennis voordat in die nabyheid van gewasse in blom, toegedien word. **ELEVATE® 360 SC** het slegs 'n geringe invloed op bye, nadat die spuitstof afgedroog het.

- Parasiete: "Effens skadelik"
- Predatorymyte: "Veilig tot effens skadelik vir sommige spesies".
- Predatoreise Kewers bv. Coccinillidae: "Relatief skadeloos".
- Mierleeus (Neuroptera): "Relatief skadeloos".
- Roofwantse: "Relatief skadeloos".

Herbetredingsperiode:

Tensy beskermende klere gedra word, moenie 'n behandelde gebied betree alvorens die spuitneerslag afgedroog het nie.

VRYWARING

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 klimaats- en bergingstoestande; kwaliteit van verdunningswater; verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die plaag 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 effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om 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 die geval van enige onsekerheid.

VOORSORGMATREËLS

VOORKOMENDE VERKLARINGS:

Verkry, lees en volg al die veiligheidsinstruksies voor produk gebruik word.

Vermyn inaseming van stof/rook/gas/mis/damp/sproei.

Dra beskermende handskoene/beskermende klere/oogbeskerming/gesigskerm.

Indien blootgestel of bekommerd, kry mediese advies

Versamel verspilde produk.

Verwyder die inhoud/houer in ooreenstemming met toepaslike regulasies.

Berg altyd in die oorspronklike ge-etiketeerde houer. Die houer moet toe wees en moet in 'n droë, koel, goed geventileerde stoorplek geberg word, wat te alle tye gesluit is. Berg verwyderd van voedsel en voer.

Was met water en seep in geval van toevallige kontak met vel.

Dra handskoene en 'n gesigskerm wanneer hanteer word.

Vermyn vel- en oogkontaminasie. In geval van toevallige oogkontak, spoel oë met lopende water vir ongeveer 15 minute. Verkry mediese hulp indien oogirritasie nie sou opklaar nie.

Moenie eet, drink of rook terwyl gemeng of toegedien word nie.

Tydens vermenging of toediening moet die hande en gesig altyd gewas word voordat geëet, gedrink, gerook of die toilet besoek word.

Vermyn wegdrywing van spuitnewel na aangrensende gewasse, weidings, riviere of damme. Maak alle toerusting skoon voordat vir ander middels gebruik word en gooi spoelwater weg in reeds gespuite area waar dit nie gewasse, weiding, riviere, damme en waterbronne sal besoedel nie.

Ledig houers deur dit vir ongeveer 30 sekondes omgekeer te hou totdat die uitvloeï van die inhoud tot 'n stadige drup verlangsaam. Spoel die leë houer daarna drie maal uit met water gelykstaande aan ongeveer 10 % van die volume van die houer en voeg die spoelwater by

die inhoud van die spuitenk. Vernietig die leë houer deur gate in te kap, plat te slaan en te begrawe. Moet nooit leë houers vir enige ander doel aanwend nie.

Voorkom die besoedeling van kos, voedingstowwe, drinkwater en eetgerei tydens opberging, hantering en wegdoening.

RELEVANTE STOWWE:

KOMPONENT	CAS No.	Konsentraat (% w/w)
Metoksifenosied	161050-58-4	28,36
Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0)	935545-74-7	5,61
Naftaleensulfonsuur, formaldehyd ammoniumsout kopolimeer	9069-80-1	>= 3 - < 10
1,2-bensisotiasool-3(2H)-een	2634-33-5	>= 0,025 - < 0,05

NOODHULPMAATREËLS:

Inaseming

Beweeg persoon na vars lug. As die persoon nie asemhaal nie, ontbied 'n noodhulpdiens of ambulans, gee dan kunsmatige asemhaling, indien mond-tot-mond gebruik redderbeskerming (sakmasker ens.). Bel 'n gifbeheersentrum of geneesheer vir behandelingsadvies.

Velkontak

Trek besmette klere uit. Was vel met seep en baie water vir 15-20 minute. Bel 'n gifbeheersentrum of geneesheer vir behandelingsadvies. Was klere voor hergebruik. Skoene en ander leeritems wat nie ontsmet kan word nie, moet behoorlik weggedoen word.

Oogkontak

Hou oë oop en spoel stadig en saggies uit met water vir 15-20 minute. Verwyder kontaklense, indien teenwoordig, na die eerste 5 minute, gaan dan voort om oë uit te spoel. Bel 'n gifbeheersentrum of geneesheer vir behandelingsadvies.

Geskikte nood-oogspoelfasiliteit moet in die werkarea beskikbaar wees.

Inname

Geen mediese noodbehandeling nodig nie.

Weerstandbestuur van insekmiddels

Insekdoders word geklassifiseer op grond van hul werkingswyse. ("Mode of Action"). **ELEVATE® 360 SC** is geklassifiseer as 'n spinosien (IRAC subgroep 5) en methoxyfenozide (IRAC groep 18) insekdoder. Moenie **ELEVATE® 360 SC** meer as vier (4) maal op enige gewas per seisoen toedien nie. Gebruik insekdoders van 'n ander chemiese groep indien meer as vier (4) toedienings benodig word.

Enige insekpopulasie mag individue met 'n natuurlike weerstand teen **ELEVATE® 360 SC** of ander insekdoders binne dieselfde chemiese groep insluit. Indien **ELEVATE® 360 SC**, of insekdoders van dieselfde chemiese groep, herhaaldelik oor lang periodes, of teen opeenvolgende generasies van insekte aangewend word, sal die weerstandbiedende

individue uiteindelik oorheersend in die populasie voorkom. Hierdie weerstandbiedende insekte sal nie deur **ELEVATE® 360 SC**, of ander insekdoders binne dieselfde chemiese groepe, beheer word nie. Plaaslike kundiges moet oor 'n weerstandstrategie of oor aanbevelings in die verband geraadpleeg word. Dit is bekend dat weerstand van insekte en myte teen insek- en mytdoders ook as gevolg van verhoogde metabolisme, verlaagde penetrasie of veranderde gedragspatroon kan ontstaan. Hierdie tipe weerstand hou nie verband met enige werkingswyse-klassifikasie nie, maar sal spesifiek wees tot 'n bepaalde middel of chemiese groepering. Ten spyte van bogenoemde, bly die afwisseling van middels tussen verskillende chemiese groepe steeds 'n lewensvatbare anti-weerstandstegniek.

Om insekweerstand te vertraag

- Vermyn die eksklusiewe gebruik van insekdoders van dieselfde subgroep.
- Moenie insekdoders teen laer dosisse, as wat op die etiket voorgeskryf word, aanwend nie.
- Rig toedienings verkieslik en waar enigsins moontlik, teen die jonger larwale- of die eierstadium van 'n betrokke plaag.
- Sluit ook ander bewese landboukundige of biologiese beheerpraktyke by geïntegreerde plaagbestuursprogramme in.

Geïntegreerde Plaagbestuursprogram (GPB)

ELEVATE® 360 SC kan in GPB programme van verskeie gewasse aanbeveel word, veral waar die voorkoms van plaegemonitor word en toedienings eers oorweeg word wanneer die ekonomiese drempelwaarde vir die plaeg op die betrokke gewas bereik is.

Behalwe dat **ELEVATE® 360 SC** die plaeg wat as voedselbron vir voordelige insekte dien, beheer, het **ELEVATE® 360 SC** wat binne GLP aangewend word, nie 'n beduidende nadelige invloed op parasitiese en predatoriese insekte en myte soos skilpadkewers, goudogies, roofwantse, predatoriese myte ens. nie. Alhoewel **ELEVATE® 360 SC** as "skadelik" vir parasiete geklassifiseer word, het veldstudies getoon dat populasies weer vinnig na bespuiting herstel.

Indien **ELEVATE® 360 SC** met ander insekdoders, wat die selektiwiteit van **ELEVATE® 360 SC** ten opsigte van die voordelige insekte benadeel, gemeng word, sal die voordeel van **ELEVATE® 360 SC** in die GPB program nie ten volle benut kan word nie.

MENGINSTRUKSIES:

ELEVATE® 360 SC alleen:

Vul die spuittenk tot die helfte van die totale volume water benodig. Voeg die verlangde hoeveelheid **ELEVATE® 360 SC** in die spuittenk terwyl die water aanhoudend geroer word en die tenk verder tot die verlangde volume aangevul word. Handhaaf roering gedurende bespuiting om univorme verspreiding van die middel in die tenk te verseker. Vermyn die terugvloei van water of spuitmengsel na die waterbron.

Mengbaarheid, pH en tenkvermenging:

Moenie **ELEVATE® 360 SC** met modderige water vermeng nie. Alhoewel pH van spuitmengsels nie 'n invloed op die aanvanklike uitklopwerking van **ELEVATE® 360 SC** het nie, sal spuitmengsels met 'n lae pH waarde (< pH 5) die residuele werking van **ELEVATE® 360 SC** benadeel. Buffer-middels is oor die algemeen nie nodig nie. Versuringsmiddels of produkte wat die spuitmengsel tot onder pH 5 sal versuur (bv. Fosfonate, hoë konsentrasies van blaarvoedings, ens.) moet vermy word of terug gebuffer word tot pH 5 - 8. Optimum werking van **ELEVATE® 360 SC** word by pH 5 - 8 verkry.

Die mengbaarheid mag beïnvloed word deur die formulاسie van die ander produkte asook die kwaliteit van die water. Indien die mengbaarheid onbekend is moet 'n fisiese mengbaarheidstoets op klein skaal, in die regte verhoudings, gedoen word alvorens die middels in die tenk gevoeg word.

In die geval van blaarvoedings moet 'n afsonderlike verenigbaarheidstoets vir elke tipe blaarvoedingsprodukt, in die betrokke water gedoen word.

In die geval van tenkmengsels word hewige en deurlopende roering tydens vermenging, vulling en toediening vereis. Terugvloei-pype met sywaartse uitlate op die bodem van die tenk, verskaf normaalweg die mees doeltreffendste roering. Om die vorming van skuim te beperk, moet enige aksie wat die vermenging van lug met die spuitmengsel veroorsaak, voorkom word.

Mengvolgorde vir Tenkmengsels:

Vul spuittenk tot ongeveer 'n kwart van totale volume spuitwater verlang. Terwyl die inhoud van die spuittenk geroer word, voeg die verskillende formulاسiesoorte in volgorde soos hieronder genoem, by die spuitwater in die tenk. Na byvoeging van elke produk, laat voldoende tyd vir volledige vermenging en verspreiding toe, voordat die volgende produk bygevoeg word. Laat addisionele meng- en dispergeringstyd vir waterdispergeerbare produkte toe.

Meng verskillende formulاسie in die volgende volgorde:

1. Water dispergeerbare korrels (WG) (Na vooraf vermenging met water).
2. Benatbare poeiers (WP) of waterdispergeerbare poeiers (WS) (Na vooraf vermenging met water).
3. **ELEVATE® 360 SC** en ander suspensie konsentrate (SC).
4. Ge-enskapsuleerde suspensies (CS).
5. Emulgeerbare konsentrate (EC) of emulsies (olie in water konsentrate) (EW).
6. Blaarvoedingsmiddels – na vooraf vermenging met water.

Terwyl deurlopend geroer word, vul tenk tot verlangde volume. Hou die inhoud van die tenk in roering vir die volle duur van vermenging en bespuiting. In geval van 'n spuitonderbreking terwyl die tenk nog nie leeg is nie, moet die spuitmengsel eers weer deur deeglike roering in suspensie gebring word, voordat bespuiting hervat word. 'n Terugvloei pyp met sywaartse uitlate op die bodem van die spuittenk is baie geskik vir die doel.

Voorafvermenging

Dispergeerbare korrel (WG) en benatbare poeier (WP) formulasies kan vooraf met water tot 'n pasta vermeng word en deur maas sif, by die spuitwater gevoeg word. Die prosedure verleen sodoende 'n goeie aanvanklike dispergering van die formulاسie soorte.

REËNVASTHEID: Vermoed toedienings indien reën binne 6 ure na toediening verwag word.

TOEDIENING

Deur gebruik te maak van behoorlike toedieningstegnieke word verseker dat deeglike bedekking verkry word en die regte dosisse van **ELEVATE® 360 SC** per ha toegedien word om optimum beheer van insekplae te verseker. Vir die doeltreffende toediening van **ELEVATE® 360 SC** en goeie bedekking van die gewas, moet die volgende faktore in aanmerking geneem word: Die regte grondspoed en kalibrasie, sowel as windspoed, plantgrootte en digtheid van die blaredek.

GROND TOEDIENING

Toediening op Vrugtebome:

Gebruik konvensionele boordspuit toerusting wat op korrekte wyse gekalibreer is om deeglike bedekking van die teikengewas en korrekte dosis per ha te verseker.

Sagtevrugtebome: ELEVATE® 360 SC moet op sagtevrugtebome toegedien word deur gebruik te maak van toerusting en toedieningsmetodes wat sal verseker dat deeglike bedekking van die teikenarea verkry word. Behalwe waar hoëvolume bespuitings spesifiek aanbeveel word, mag laevolume toedienings oorweeg word (maks 4x), op voorwaarde dat die toerusting geskik is of aangepas is vir laevolume toediening, en dat toestande geskik is vir optimale bedekking van die teikenarea.

Die dosis per ha moet volgens die formule vir “*Hoë volume benodig*” (HVB) bereken word deur van “*Unrath se formule*” vir “*Boomy Volume*” (BRV) gebruik te maak.

$$BRV = \frac{\text{Boomhoogte (BH)}^* \times \text{Boomwydte (BW)}^* \times 937}{\text{Afstand tussen Rye (RW)}} = \text{HVB in liters per ha}$$

*(Boomhoogte en Boomwydte moet gedurende die somer, wanneer bome in volblad is, bepaal word.)

Voorgestelde toedieningsvolumes (TV) by verskillende groeistadiums en die formule vir die berekening van dosis per ha, gebaseer op Hoëvolume Behoefte (HVB)

Groeistadium	Toedieningsvolume
Bot tot Volblom	60 % x HVB
75 % Blomblaarval tot Een Maand Later (Midseisoen)	80 % x HVB
Midseisoen tot Na-oes, Voor Blaarval	100 % x HVB

$$\text{Dosis per ha} = \frac{\text{HVB (l/ha)} \times \text{Dosis} / 100 \text{ l}}{100}$$

GEWAS/PLAAG	DOSIS/100 L WATER	OPMERKINGS
KERNVRUGTE - APPELS en PERE Kodlingmot <i>(Cydia pomonella)</i>	50 ml	<p>Dien ELEVATE® 360 SC as 'n voldekbepuiting toe. Deeglike bedekking van die teikenarea is belangrik.</p> <p>Bespuittings moet aan die begin van 'n motgenerasie, of in die geval van die eerste generasie, teen $\frac{3}{4}$ blomblaarval, 'n aanvang neem. Herhaal toedienings met 14 (veertien) dae tussenposes vir 'n maksimum van 4 (vier) agtereenvolgende bespuittings.</p> <p>Alhoewel ELEVATE® 360 SC teen enige van die Kodlingmotgenerasies aangewend kan word, sal die posisionering van ELEVATE® 360 SC bepaal word deur die spesifieke beheerstrategie wat gevolg gaan word.</p> <p>Wanneer die toediening van ELEVATE® 360 SC op eier uitbroeistadium gerig word (gebaseer op Daggrade Model in boorde onder paringsontwrigting) is die bepaling van "Biofix" en berekening van daaropvolgende eier uitbroeistadium van kardinale belang. Raadpleeg u raadgever in die verband.</p> <p>Weerstandsbestuur: As weerstandstrategie moet ELEVATE® 360 SC slegs vir beheer van een Kodlingmotgenerasie per seisoen oorweeg word. Geregistreerde produkte met verskillende werkingswyse moet vir die beheer van die ander generasies oorweeg word. Moenie ELEVATE® 360 SC in totaal meer as vier (4) maal per seisoen op Appels en Pere toedien vir beheer van Kodlingmot nie.</p> <p>Indien ELEVATE® 360 SC teen die laaste Kodlingmotgenerasie van 'n seisoen aangewend word, dan moet 'n produk met ander werkingswyse vir die beheer van die eerste generasie in die daaropvolgende seisoen oorweeg word.</p>

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