

RESTRICTED USE AGRICULTURAL REMEDY

THIS REMEDY IS RESTRICTED DUE TO ACUTE TOXICITY. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY A REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF A REGISTERED PEST CONTROL OPERATOR, AND ONLY FOR THOSE USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION, AND ONLY AS DIRECTED ON THIS LABEL.

Hunter® 24 SC

GROUP
13
INSECTICIDE

Reg. No.: L8307, N-AR 0804

Act No. 36 of 1947

READ ATTACHED PACKAGE OR LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

A suspension concentrate translaminar acaricide / insecticide, with mainly stomach and some contact activity, for the control of the pests mentioned on the crops listed.

'n Suspensiekonsentraat-translaminêre myt- en insekdoder, wat aktief is hoofsaaklik as maag- en in 'n mindere mate as kontakgif, vir die beheer van die plae vermeld op die genoemde gewasse.


DANGER
Hazard Statements:

Causes mild skin irritation.
Fatal if inhaled.
Toxic if swallowed.
May cause damage to organs (Central nervous system) through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Do not breathe dust/gas/mist/vapours.
Wash contaminated body parts thoroughly after handling.

Active ingredient / Aktiewe bestanddeel:

Chlorfenapyr (pyrrole)..... 240 g/l

Registered by / Geregistreer deur:

BASF South Africa (Pty) Ltd
Co. Reg. No. 66/10235/07
852 Sixteenth Road
P.O. Box 2801
Halfway House 1685
+27 11 203 2400

Batch No. & Date manufactured: Refer details printed on container

Lotnommer & Datum vervaardig: Verwys na besonderhede gedruk op houer

EMERGENCY NUMBERS: +27 82 446 8946 or +27 11 203 2420

In case of poisoning, call the following number: +27 82 446 8946

UN No. / VN Nr: 2902

*Registered Trademark of BASF / Geregistreerde Handelsmerk van BASF

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WARNINGS

Hazard statements:

- Causes mild skin irritation.
- Fatal if inhaled.
- Toxic if swallowed.
- May cause damage to organs (Central nervous system).
- May cause damage to organs (Central nervous system) through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects.

ALLOW THE FOLLOWING MINIMUM NUMBER OF DAYS BETWEEN THE LAST APPLICATION, HARVESTING AND GRAZING:

Apples and Pears	30
Citrus	140
Cotton	DO NOT GRAZE
Cruciferae	7
Grapes	80
Nectarines	30
Plums	57
Potatoes	14
Tomatoes	3

- Handle with care.
- Store out of reach of children, uninformed persons and animals.
- Toxic to fish, birds, bees, other animals and aquatic invertebrates.
- Store away from food and feedstuffs and in a cool, dry, well ventilated place.
- Do not store in direct sunlight or near heat.
- Re-entry: Do not enter treated area(s) within one day after application unless wearing protective clothing and before the plants have dried off.
- IN CASE OF POISONING, CONSULT A MEDICAL DOCTOR AND MAKE THIS LABEL AVAILABLE TO HIM.

Aerial application:

- Notify and warn all inhabitants of the immediate area of the intended application and issue the necessary warnings.
- Do not spray over adjacent areas or water or permit spray to drift there.
- Aerial application is only recommended on potatoes.

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, harm to man or animal, or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

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.
 - Use only outdoors or in a well-ventilated area.
 - Do not breathe dust/gas/mist/vapours.
 - In case of inadequate ventilation wear respiratory protection.
 - Wash contaminated body parts thoroughly after handling.
 - Do not eat, drink or smoke when using this product.
 - Immediately call a POISON CENTRE or physician.
 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - Rinse mouth.
 - Collect spillage.
 - Store in a well-ventilated place. Keep container tightly closed.
 - Store locked up.
 - Dispose of contents and container to hazardous or special waste collection point.
- Wear protective clothing (overall, rubber gloves and goggles or face shield) during mixing and application.
 - Wash contaminated clothing well after each use.
 - Do not smoke, eat or drink during mixing and spraying operations before washing hands and face thoroughly.
 - Do not contaminate drinking water, eating utensils, food or feed.
 - Prevent drift or spray mist onto other crops, grazing, rivers, dams and areas not under treatment, especially if bees are visiting blooming crops.
 - TRIPLE RINSE empty containers in the following manner. Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the 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 in the prescribed manner.
 - Destroy empty containers by perforation and flattening and dispose of in a safe way and never reuse for any other purpose.
 - **Do not apply Hunter® 24 SC when bees are active in the orchard to be sprayed.**

RELEVANT SUBSTANCES

Hazardous ingredients According to UN GHS criteria	CAS number	Concentration (W/W)
chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile	122453-73-0	21,4 %
1,2-Benzisothiazol-3(2H)-one	2634-33-5	< 0,05 %
Propane-1,2-diol	57-55-6	< 10 %

FIRST AID TREATMENT

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

ON CONTACT WITH EYES:	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
ON INGESTION:	Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention. If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting unless told to by a poison control center or doctor. Take patient to hospital immediately. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Medical monitoring for at least 7 days.
ON SKIN CONTACT:	Immediately wash thoroughly with soap and water, seek medical attention. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.
IF INHALED:	Keep patient calm, remove to fresh air, seek medical attention. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.

TREATMENT: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

RESISTANCE WARNING

For resistance management, Hunter® 24 SC is an IRAC Group Code 13 Insecticide. Any insect population may contain individuals naturally resistant to Hunter® 24 SC and other Group Code 13 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly and exclusively in programmes. These resistant insects may not be controlled by Hunter® 24 SC, or any other Group Code 13 Insecticides.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide Group Code.
- Integrate other control methods (chemical, cultural, biological), into pest control programmes.
- Do not apply Hunter® 24 SC more than twice per season on apples, pears, grapes, nectarines and ornamentals and not more than five times per season on potatoes, not more than three times on cotton, tomatoes, and no more than four times on cruciferae. For the number of applications on citrus, please follow directions for use on in the table.
- It is recommended that Hunter® 24 SC applications be alternated with products from different chemical groups [e.g. Torque® (L4929) for mite control and Fastac® SC (L4992) for banded fruit weevil (snoutbeetle) or potato tuber moth control], to ensure that the possibility of resistance is limited.

FOR SPECIFIC INFORMATION ON RESISTANCE MANAGEMENT, CONTACT THE REGISTRATION HOLDER, BASF SA (Pty) Ltd.

USE RESTRICTIONS

Ornamentals:

Due to the large number of ornamental varieties and the various cropping conditions, it is impossible to have investigated the tolerance of all varieties for all situations. The user of this product is recommended to conduct small scale testing of this product, for crop tolerance for each new situation, with respect to variety, growth stage and climatic conditions, before attempting a large scale spray. Hunter® 24 SC for instance, has been tested on the following varieties without giving any adverse effects.

General Ornamentals:

Bamboo Palms, *Chefflera*, Leather Leaf Fern, *Croton* spp., *Helconia*, *Diffenbachia*, *Phylodendron*, *Chamaedorea*, Birds Nest, *Draceana* and *Asplinium*.

RESTRICTED USES:

USE ONLY AS DIRECTED

Compatibility:

- The compatibility of **Hunter® 24 SC** has been tested with many products in common use in crops listed, with no adverse effect. However, as formulations of other products may change and water quality may vary from farm to farm, it is recommended to carry out a physical compatibility test, prior to the application of a tank mixture. When using in combination with other products, full cognisance should be taken of all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.
- Add a wetter (which is commonly used on cruciferae) when cruciferae is sprayed.

Mixing instructions:

Half fill the tank with clean water. Measure the required quantity of **Hunter® 24 SC** and pre-mix this with at least 10 ℓ of water. Add this mixture to the water in the spray tank while agitating the mixture. Fill the spray tank with water while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation during the whole spraying operation. Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

Aerial application:

Aerial application of **Hunter® 24 SC** may only be done by a registered aerial application operator, using a correctly calibrated, registered aircraft, according to the instructions of SANS 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** A spray mixture volume of 40 ℓ per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 30 - 40 droplets per cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 280 - 300 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 - 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 - 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the wind speed exceeds 15 km / h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and / or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - Damage to other sensitive crops and / or non-target areas through drifting of the suspended spray cloud away from the target field.

- Ensure that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

GENERAL DIRECTIONS

- **Hunter® 24 SC** is an acaricide / insecticide, with good translaminar but limited systemic activity in the plant. It has mainly oral and some contact activity on adult and larval stages of insects and mites, as listed below.
- Use in enough water to ensure that both surfaces of leaves, all stems and branches, are adequately covered.
- Proper timing of **Hunter® 24 SC** application is essential to obtain optimum control. Regular orchard / crop inspection is recommended.
- The addition of an acidifying surfactant is recommended when spray-water with pH > 7.0 is used. This is to increase penetration into the leaf.
- When controlling mites, applications should be made as soon as adult female mites appear.
- When the first application for the control of thrips on apples is made, at 75% petal drop, take note that thrips damage could have occurred on the young fruit prior to application. Obviously this damage is permanent, and **Hunter® 24 SC** will only be able to prevent any further damage.
- **Non target effects on citrus:** Increased numbers of citrus red mite can be induced when **Hunter® 24 SC** is applied to citrus. Effective measures need to be taken to control citrus red mite if present at the time of spraying.

All spray applications must be made with suitable equipment, that is in good working order and correctly calibrated, to give the desired coverage for that particular method of application.

CROP	PEST	DOSAGE	DIRECTIONS FOR APPLICATIONS
APPLES and PEARS	Red spider mites [<i>Tetranychus urticae</i> (<i>cinnabarinus</i>)]	50 ml / 100 ℓ water	Regular orchard inspections are essential. At the first sign of adult female mites, a single application must be made. Apply as a high volume spray, using tree row volume formula, to determine the volume of water to be used per hectare. Ensure thorough wetting of the entire tree. Should mites recur in the orchards, an adulticide, which has a short pre-harvest interval, should be applied. See also GENERAL DIRECTIONS and RESISTANCE WARNINGS .

CROP	PEST	DOSAGE	DIRECTIONS FOR APPLICATIONS
APPLES	Banded fruit weevils [(snoutbeetle) <i>Phlyctinus callosus</i>]	50 ml / 100 l water	Apply from 75% petal drop, when banded fruit weevils have been observed in cardboard traps or feeding on lower shoots. In high infestation situations, early in the season, a second application must be made 14 days later, provided the application is before full bloom. Regular monitoring for banded fruit weevil must be maintained throughout the season and if a third application is necessary, an unrelated product such as Fastac® SC should be used. Apply as a high volume spray, using the tree row volume formula, to determine the volume of water to use per hectare. Ensure thorough wetting of the entire tree. See also GENERAL DIRECTIONS and RESISTANCE WARNINGS .
APPLES	Thrips	50 ml / 100 l water	Apply at early blossom (before bees are introduced to the orchard) and repeat at the same dosage from 75% petal drop (after bees have been removed). Apply as a high volume spray, using the tree row volume formula, to determine the volume of water to use per hectare. Ensure thorough wetting of the entire tree. These treatments will also control banded fruit weevil and early infestations of red spider mite, if present, at application. See also GENERAL DIRECTIONS and RESISTANCE WARNINGS .

CROP	PEST	DOSAGE	DIRECTIONS FOR APPLICATIONS
GRAPES (Table and Wine)	Western Flower Thrips (<i>Frankliniella occidentalis</i>)	50 mℓ / 100 ℓ water	TABLE GRAPES For prevention of “halo” spot: Apply at 30 % - 50 % caps fallen (flower) and repeat 14 days later. Apply between 1000 and 2000 ℓ spray mixture / ha. Ensure thorough wetting of the entire vine. Do not use less than 500 mℓ product / ha. Banded fruit weevils will also be controlled if present at application and regular monitoring for weevils must be maintained throughout the season. If a third application is necessary, an unrelated product such as Fastac® SC should be used. See also GENERAL DIRECTIONS and RESISTANCE WARNINGS.
	Banded fruit weevils [(snoutbeetle) <i>Phlyctinus callosus</i>]	50 mℓ / 100 ℓ water	TABLE AND WINE GRAPES Apply when banded fruit weevils have been observed in cardboard traps or feeding on lower shoots. In high infestation situations early in the season, a second application must be made 14 days later. Regular monitoring for banded fruit weevil must be maintained throughout the season and if a third application is necessary, Fastac® SC should be used. Apply as a high volume spray, ensuring thorough wetting of the entire vine. See also GENERAL DIRECTIONS and RESISTANCE WARNINGS.

CROP	PEST	DOSAGE	DIRECTIONS FOR APPLICATIONS
NECTARINES	Thrips	50 mℓ / 100 ℓ water	For prevention of russetting: Apply at 50 % blossom and repeat 14 days later. Apply as a high volume spray, using the tree row volume formula, to determine the volume of water to use per hectare. Ensure thorough wetting of the entire tree. Do not use less than 500 mℓ product / ha. For prevention of silvering: Apply a single spray, as close to harvest as possible, but not within 30 days before harvest. Apply as a high volume spray, using the tree row volume formula, to determine the volume of water to use per hectare. Ensure thorough wetting of the entire tree. Do not use less than 500 mℓ product / ha. See also GENERAL DIRECTIONS and RESISTANCE WARNINGS.
	Banded fruit weevil [(snoutbeetle) <i>Phlyctinus callosus</i>]	50 mℓ / 100 ℓ water	Apply from 75 % petal drop when banded fruit weevils have been observed in cardboard traps or feeding from lower shoots. In high infestation situations early in the season, a second application must be made 14 days later. Regular monitoring for banded fruit weevil must be maintained throughout the season and if a third application is necessary, an unrelated product such as Fastac® SC should be used. Apply as a high volume spray, using the tree row volume formula, to determine the volume of water to use per hectare. Ensure thorough wetting of the entire tree. See also GENERAL DIRECTIONS and RESISTANCE WARNINGS.
ORNAMENTALS	Red spider mite [<i>Tetranychus urticae</i> (<i>cinnabarinus</i>)]	40 mℓ / 100 ℓ water (4 mℓ / 10 ℓ water)	Apply as a high volume, full cover, spray to the point of run-off, using up to 2000 ℓ spray mixture per hectare. Use a minimum of 400 mℓ and a maximum of 800 mℓ Hunter® 24 SC per hectare. Applications should be made as soon as adult mites first appear. (See also GENERAL DIRECTIONS and RESISTANCE WARNINGS, as well as USE RESTRICTIONS - Ornamentals above).

CROP	PEST	DOSAGE	DIRECTIONS FOR APPLICATIONS
TOMATOES	Red spider mites [<i>Tetranychus urticae</i> (<i>cinnabarinus</i>) <i>Tetranychus</i> <i>lombardinii</i>]	60 mℓ / 100 ℓ water (525 - 1050 mℓ / ha)	Apply at first signs of infestation, as a high volume, high pressure, full cover spray, to the point of run-off. Apply in up to 2 000 ℓ spray mix per hectare. If less than 1 250 ℓ spray mix / ha is used, see minimum dosage rates below : <u>Minimum volumes of Hunter® 24 SC to be used per hectare:</u> • Plants smaller than 40 cm: 525 mℓ / ha. • Plants taller than 40 cm: 750 mℓ / ha. • Under severe mite pressure do not use less product than 750 mℓ / ha Ensure full cover spray and thorough wetting of all leaves and fruit. Repeat application if necessary.

Torque® and **Fastac® SC** are Registered Trademarks of BASF.

WAARSKUWINGS

Gevaarverklarings

- Veroorsaak geringe velirritasie
- Dodelik indien ingesem.
- Giftig indien ingesluk.
- Mag skade aan organe veroorsaak (Sentrale senuweestelsel) gedurende langdurige en herhaalde blootstelling.
- Baie giftig vir waterlewende organismes met langdurige gevolge

LAAT DIE VOLGENDE MINIMUM AANTAL DAE TOE TUSSEN DIE LAASTE TOEDIENING, OES EN BEWEIDING:

Aartappels	14
Appels en Pere	30
Druive	80
Koolgewasse	7
Katoen	MOENIE BEWEI NIE
Nektariens	30
Pruime	57
Sitrus	140
Tamaties	3

- Hanteer versigtig.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Giftig vir vis, voëls, bye, ander diere en ongewerweldes in water.
- Bêre weg van voedsel en voer in 'n koel, droë, goed geventileerde plek.
- Moenie in direkte sonlig of naby hitte bêre nie.
- Herbetreding: Moenie bespuite area's betree binne een dag na bespuiting sonder die nodige beskermende klere en voordat die plante afgedroog het nie.
- IN DIE GEVAL VAN VERGIFTIGING, RAADPLEEG 'N GENESSHEER EN TOON HIERDIE ETIKET AAN HOM.

Lugbespuiting:

- Verwittig en waarsku alle inwoners van die onmiddellike gebied van die beoogde toedienings en reik die nodige waarskuwings uit.
- Moenie oor aangrensende gebiede of water spuit of spuitstof daarheen laat oorwaai nie.
- Lugtoediening word slegs op aartappels aanbeveel.

Alhoewel hierdie middel omvattend en 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 'n 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, 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 the geval van enige onsekerheid.

VOORSORGMAATREËLS

Voorsorgverklarings:

- Indien mediese advies benodig word, hou die produkhouer of -etiket byderhand.
 - Hou buite bereik van kinders.
 - Lees sorgvuldig en volg alle instruksies.
 - Gebruik slegs buitenshuis of in 'n goed geventileerde area.
 - Moet nie stuïfsel, dampe of spuitstof inasem nie.
 - In geval van onvoldoende ventilasie, dra asemhalingsbeskerming.
 - Was besoedelde ligaamsdele deeglik na hantering van produk
 - Moenie eet, drink of rook wanneer hierdie produk gebruik word nie.
 - Skakel dadelik 'n GIFBEHEERSENTRUM of geneesheer.
 - INDIEN INGEESEM: Neem slagoffer na vars lug en hou gemaklik vir asemhaling.
 - Spoel mond uit.
 - Maak stortsel bymekaar.
 - Berg in 'n goed geventileerde plek. Hou houer dig geseël.
- Dra beskermende klere (oorpak, rubber handskoene en bril of gesigskerm) tydens menging en toediening.
 - Was besmette klere deeglik na elke gebruik.
 - Moenie eet, rook of drink terwyl gemeng of gespuut word nie en alvorens hande en gesig nie eers deeglik gewas is nie.
 - Moenie drinkwater, eetgerei, voedsel of voer besoedel nie.
 - Vermoedlik van spuitnewel na ander gewasse, riviëre, damme, weiveld en areas nie onder behandeling nie, veral wanneer by gewasse besoek wat in blom is.
 - Leë houters moet DRIE KEER UITGESPOEL word soos volg. Keer die leë houer om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloeitot 'n gedrup verminder het. Spoel die houer daarna drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer op die voorgeskrewe wyse vernietig word.
 - Vernietig leë houters deur gate in te kap en plat te slaan en raak op 'n veilige wyse daarvan ontslae. Moenie vir enige ander doel hergebruik nie.
 - **Moenie Hunter® 24 SC toedien wanneer bye aktief is in 'n boord wat bespuit word nie.**

RELEVANTE STOWWE

Gevaarlike Bestanddele Volgens UN GHS kriteria	CAS nommer	Konsentrasie (W/W)
chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile	122453-73-0	21,4 %
1,2-Benzisothiazol-3(2H)-one	2634-33-5	< 0,05 %
Propane-1,2-diol	57-55-6	< 10 %

NOODHULPBEHANDELING

Noodhulp personeel moet eerste aandag gee aan hul eie veiligheid. As die pasiënt moontlik bewusteloos kan raak, plaas en ondersteun in 'n stabiele sywaartse posisie (herstel posisie). Verwyder besmette klere dadelik.

INDIEN IN DIE OË:	Besmette oë moet vir ten minste 15 minute onder lopende water uitgespoel word. Raadpleeg 'n oogspesialis
INDIEN INGESLUK:	Spoel dadelik mond uit en drink 200 – 300 ml water. Moenie braking veroorsaak nie. Verkry mediese hulp. Indien ingesluk verkry mediese advies en wys die houër of etiket. Moenie braking veroorsaak behalwe as so geadviseer is deur 'n gifbeheersentrum of dokter. Neem pasiënt dadelik na 'n hospitaal. In geval van vergiftiging, skakel n gifbeheersentrum of geneesheer vir advies vir behandeling en toon die verpakking of etiket aan hom. Monitor pasiënt vir 7 dae onder mediese toesig.
INDIEN OP DIE VEL:	Was dadelik deeglik met seep en water en verkry mediese hulp. In geval van vergiftiging, skakel n gifbeheersentrum of geneesheer vir advies vir behandelings toon die verpakking of etiket aan hom.
INDIEN INGEASEM:	Hou pasiënt kalm en verwyder na vars lug. Verkry mediese hulp. In geval van vergiftiging, skakel n gifbeheersentrum of geneesheer vir advies vir behandeling en toon die verpakking of etiket aan hom.

BEHANDELING: Behandel simptome (reinig, belangrikste funksies). Daar is geen spesifieke teenmiddel nie.

WAARSKUWING TEEN WEERSTAND

Hunter® 24 SC is 'n IRAC Groepkode 13 insekdoder, in terme van weerstandsbestuur. Enige populasie van 'n spesifieke insek mag individue insluit wat 'n natuurlike weerstand teen Hunter® 24 SC, of enige ander Groepkode 13 Insekdoders het. Indien hierdie insekdoders in herhaaldelike en eksklusiewe programme aangewend word, kan die weerstandbiedende individue uiteindelik die plaagpopulasie oorheers. Hierdie weerstandbiedende plaë sal waarskynlik nie deur Hunter® 24 SC of enige ander Groepkode 13 Insekdoders, beheer word nie.

Om weerstand teen insekdoders te vertraag:

- Verminder die eksklusiewe herhaaldelike gebruik van insekdoders in dieselfde Groepkode.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies), in insekdoder programme.
- Hunter® 24 SC moet nie meer as twee keer per seisoen op appels, pere, duiwe en nektariens, sierplante, nie meer as vyf keer per seisoen op aartappels, nie meer as drie maal op katoen en tamaties en nie meer as vier maal op koolgewasse toegedien word nie. Verwys na die tabel se aanwysings vir die aantal bespuitings op sitrus.
- Om die moontlikheid van weerstandbiedendheid te verminder, word aanbeveel dat Hunter® 24 SC toedienings afgewissel word met 'n myt- en insekdoder, van 'n ander chemie groep, met 'n ander metode van werking [bv. Torque® (L4929) vir mytbeheer en Fastac® SC (L4992) vir gebande vrugtekalander- (snuitekwer) of aartappelmoet beheer].

VIR SPESIFIEKE INLIGTING OOR WEERSTANDBESTUUR, KONTAK DIE REGISTRASIEHOUDER, BASF SA (Edms) Bpk.

GEBRUIKSBEPERKINGS

Sierplante:

As gevolg van die groot verskeidenheid sierplantvariëteite en groeitoestande, is dit onmoontlik om die effek van die produk op alle variëteite in alle situasies te kon getoets het. Dit word aanbeveel dat die gebruiker van die produk vir elke nuwe situasie, ten opsigte van variëteit, groeistadium en klimaatstoestand, die effek van die produk eers op klein skaal op die plante te toets, voordat 'n groter gebied bespuit word. **Hunter® 24 SC** is byvoorbeeld op die volgende variëteite getoets sonder enige buitengewone gevolge:

Ander Sierplante:

Bamboo Palms, *Chefflera*, Leather Leaf Fern, *Croton* spp., *Helconia*, *Diffenbachia*, *Phylodendron*, *Chamaedorea*, Birds Nest, *Draceana* en *Asplinium*.

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS VOORGESKRYF

Verenigbaarheid:

- **Hunter® 24 SC** is met die meeste produkte, wat algemeen in genoemde gewasse gebruik word, gemeng en getoets. Geen verenigbaarheidsprobleme is waargeneem nie. Die formulerings van ander produkte mag verander en die waterkwaliteit mag verskil van plaas tot plaas. Derhalwe word dit aanbeveel om nogtans 'n fisiese verenigbaarheidstoets uit te voer voordat 'n tenkmengsel gebruik word. Wanneer die produk met ander produkte gemeng word, moet alle **WAARSKUWINGS, VOORSORGMATREËLS** en **GEBRUIKSAANWYSINGS** op daardie etiket in ag geneem word.
- Wanneer koolgewasse gespuit word, moet 'n benatter (wat algemeen op koolgewasse gebruik word) bygevoeg word.

Menginstruksies:

Maak die spuittenk half vol met skoon water. Meet die benodigde hoeveelheid **Hunter® 24** af en meng dit vooraf met minstens 10 l water. Voeg hierdie mengsel by die water in die spuittenk terwyl die mengsel geroer word. Vul die spuittenk met water terwyl daar nog steeds geroer word ten einde deeglike vermenging van die spuitmengsel te verseker, alvorens daar begin word met bespuiting. Handhaaf roering gedurende die hele spuitproses. Aangemaakte spuitmengsel moenie in die spuittenk gelaat word vir enige bepaalde tydperk, bv. oornag, nie.

Lugtoediening:

Hunter® 24 SC kan slegs deur 'n geregistreerde lugbespuitingsperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS 10118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- **Volume:** 'n Spuitmengselvolume van 40 l per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- **Druppelbedekking:** 30 - 40 druppels per cm² moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 280 - 300 mikron word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikron (hoë drying en verdampingspotensiaal) tot 'n minimum.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 - 4 meter. Moenie spuit wanneer die vliegtuig duik, uitklim of draai nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binneste 60 - 75 % van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.
- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihieter, moenie 8 °C oorskry nie.
- Stop bespuiting indien die windspoed 15 km / uur oorskry.

- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en / of hoë lugvog toestande (relatiewe humiditeit 80 % en meer) mag tot volgende probleme aanleiding gee:
 - Verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
 - Skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

ALGEMENE AANWYSINGS

- **Hunter® 24 SC** is 'n myt- en insekdoder, met goeie translaminêre- maar beperkte sistemiese werking, in die plant. Die produk word in die liggaam van onvolwasse- en volwasse insekte en myte (soos hieronder genoem) opgeneem deur die mond, of in 'n mindere mate deur in kontak daarmee te kom.
- Gebruik in genoeg water om te verseker dat albei kante van die blare, alle stamme en takke goed benat word.
- Die tydigse toediening van **Hunter® 24 SC** is belangrik vir effektiewe beheer. Gereelde boord- / gewasinspeksies word aanbeveel.
- Die byvoeging van 'n versuringsmiddel word aanbeveel, wanneer water gebruik word met 'n pH > 7.0. Dit is om die opname in die blaar te verhoog.
- Wanneer myte beheer word, moet toedienings gemaak word sodra volwasse wyfiemyte hul verskyning maak.
- Wanneer die eerste toediening op appels op 75 % blomblaarval geskied, kon daar alreeds blaaspootjie-skade voorgekom het op die jong vrugte. Dit is omdat daar reeds vruggies gevorm was voordat gespuit is. Hierdie skade is permanent en slegs verdere skade sal verhoed kan word deur **Hunter® 24 SC** toedienings.
- **Nie-teiken effek op sitrus: Hunter® 24 SC** toedienings op sitrus kan verhoogde getalle van sitrusrooimyt veroorsaak . Effektiewe beheermaatreëls moet geneem word om sitrusrooimyt te beheer wanneer teenwoordig ten tye van toediening.

Alle toedienings moet gemaak word met geskikte toerusting, wat in goeie werkende toestand en korrek gekalibreer is, ten einde die verlangde bedekking te gee, vir die betrokke toedieningsmetode.

GEWAS	PLAAG	DOSIS	GEBRUIKSAANBEVELINGS
APPELS	Gebande vrugtekalanders [(snuitkewer) (<i>Phlyctinus callosus</i>)]	50 ml / 100 ℓ water	Dien vanaf 75% blomblaarval toe, wanneer gebande vrugtekalanders in karton lokvalle opgemerk, óf vreetmerke op waterlote gewaar word. Wanneer hoë besmettings vroeg in die seisoen voorkom, moet 'n tweede bespuiting 14 dae later toegedien word, op voorwaarde dat dit voor volblom is. Monitering vir gebande vrugtekalanders moet gereeld deur die seisoen uitgevoer word en indien 'n derde toediening noodsaaklik is, moet 'n onverwante produk soos Fastac® SC gebruik word. Dien as 'n hoë volume bespuiting toe, deur gebruik te maak van die boom-ry-formule, om die volume water wat per hektaar gebruik moet word, vas te stel. Verseker goeie benatting van die hele boom. Kyk ook ALGEMENE AANWYSINGS en WEERSTANDBIEDENDHEIDSWAARSKUWING .
DRIUWE (Tafel en Wyn)	Westerse blomblaaspootjies (<i>Frankliniella occidentalis</i>) Gebande vrugtekalanders [(snuitkewer) (<i>Phlyctinus callosus</i>)]	50 ml / 100 ℓ water 50 ml / 100 ℓ water	Tafeldriuwe: Vir die voorkoming van “halospot”: Dien teen 30 - 50 % kappieval (blom) toe en herhaal 14 dae later. Dien tussen 1000 ℓ en 2000 ℓ spuitmengsel / ha toe. Verseker goeie benatting van die hele wingerd. Moenie minder as 500 ml / ha produk gebruik nie. Kalanders sal ook beheer word indien teenwoordig is tydens bespuitings. Monitering vir gebande vrugtekalanders moet gereeld deur die seisoen uitgevoer word en indien 'n derde toediening noodsaaklik is, moet 'n onverwante produk soos Fastac® SC gebruik word. Kyk ook ALGEMENE AANWYSINGS en WEERSTANDBIEDENDHEIDSWAARSKUWING Tafel- en wyndriuwe: Dien toe wanneer gebande vrugtekalanders in die kartonlokvalle opgemerk word óf wanneer hulle op die lae uitlopers voed. Wanneer hoë besmettings vroeg in die seisoen voorkom, moet 'n tweede bespuiting 14 dae later toegedien word. Monitering vir gebande vrugtekalanders moet gereeld deur die seisoen uitgevoer word en indien 'n derde toediening noodsaaklik is, moet 'n onverwante produk soos Fastac® SC gebruik word. Dien as 'n hoë volume bespuiting toe en verseker goeie benatting van die hele wingerd. Kyk ook ALGEMENE AANWYSINGS en WEERSTANDBIEDENDHEIDSWAARSKUWING

GEWAS	PLAAG	DOSIS	GEBRUIKSAANBEVELINGS
KOOLGE-WASSE (slegs kop-kool)	Ruitrugmot larwes (<i>Plutella xylostella</i>) Groot Wit Koolmotlarwes (<i>Pieris brassicae</i>)	60 mℓ / 100 ℓ water	GERIGTE RYBESPUITING Lae infestasies: Begin met toedienings kort na uitplant (sodra plantjies gevestig is) en herhaal elke 7 - 10 dae. Hoë infestasies: Bespuitingsperiodes moet verkort word na sewe dae, veral ook gedurende warm toestande. Hunter® 24 SC moet voorkomend gespuit word en nie korrekatief nie. Bedek hele plant tot punt van afloop. Gebruik in 200 ℓ spuitmengsel / ha op klein plantjies en verhoog na 600 ℓ spuitmengsel / ha soos die plante groter word. DIEN 'N MINIMUM VAN 1,2 ℓ SPUITMENGSSEL / 100 m PLANTRY TOE. Die gebruik van 'n benatter word aanbeveel. Vir bestandheidsbestuur, word aanbeveel dat nie meer as drie toedienings per groeiseisoen toegedien moet word nie. Vervang bespuitings later in die seisoen met produkte van ander chemie groepe. ALGEHELE BESPUITING Dien toe soos aanbeveel by GERIGTE RYBESPUITING , maar in 600 - 800 ℓ water / ha.
		300 mℓ / ha	
KATOEN	Rooispinmyte [<i>Tetranychus urticae</i> (<i>cinnabarinus</i>) <i>Tetranychus lombardini</i>]	750 mℓ / ha	Dien toe sodra die roospinmytbevolkings-indeks, die ekonomiese drempelwaarde vir 'n gegewe groeistadium bereik of oorskrei het OF wanneer die roospinmytbevolkings-indeks, n skielike toename toon, van een week tot die volgende week. Dit is belangrik dat die katoen weekliks verken word om die beweging in spinmytbevolkings te monitor. Grondtoediening - 0,9 m of 1,0 m rye: Spuitspuit en -neuse: Dien toe in 300 ℓ water / ha en verseker deeglike benatting van alle dele van die plant.
		7,5 mℓ / 100 m ry	Grondtoediening - wyer rye: Waar katoen onder droë landtoestande in treinspoorrye geplant word, dien die dosis toe in 3 ℓ water per 100 m ry, deur gebruik te maak van een spuitkop bo-oor die ry, asook spuitkoppe gemonteer op valarms, om te verseker dat die plante van alle kante goed benat word.

GEWAS	PLAAG	DOSIS	GEBRUIKSAANBEVELINGS
NEKTARIENS	Blaaspootjies	50 ml / 100 l water	Vir die voorkoming van verruwing: Dien met 50 % blom toe en herhaal 14 dae later. Dien as 'n hoë- volume bespuiting toe deur gebruik te maak van die boom-ry-volume formule, om die volume water wat per hektaar gebruik moet word, vas te stel. Verseker goeie benatting van die hele boom. Moenie minder as 500 ml / ha produk gebruik nie. Vir die voorkoming van versilwering: Dien een bespuiting toe so na aan oes as moontlik, maar nie binne 30 dae voor oes nie. Dien as 'n hoë-volume bespuiting toe deur gebruik te maak van die boom-ry-volume formule om die volume water wat per hektaar gebruik moet word, vas te stel. Verseker goeie benatting van die hele boom. Moenie minder as 500 ml / ha produk gebruik nie. Kyk ook ALGEMENE AANWYSINGS en WEERSTANDBIEDENDHEIDSWAARSKUWING.
	Gebande vrugtekalanders [(snuitekwer) <i>Phlyctinus callosus</i>]	50 ml / 100 l water	Dien vanaf 75 % blomblaarval toe, wanneer gebande vrugtekalanders in karton lokvalle opgemerk, of vreetmerke op waterlote gewaar word. 'n Tweede bespuiting moet 14 dae later toegedien word. Monitering vir gebande vrugtekalanders moet gereeld deur die seisoen uitgevoer word en indien 'n derde toediening noodsaaklik is, moet 'n onverwante produk soos Fastac® SC gebruik word. Dien as 'n hoë-volume bespuiting toe, deur gebruik te maak van die boom-ry-volume formule om die volume water wat per hektaar gebruik moet word, vas te stel. Verseker goeie benatting van die hele boom. Kyk ook ALGEMENE AANWYSINGS en WEERSTANDBIEDENDHEIDSWAARSKUWING.
PRUIME	Blaaspootjies	50 ml / 100 l water	Dien by vroeë blom toe (voordat die byekorwe in die boord ingebring word) en herhaal by 75 % blomblaarval (nadat byekorwe verwyder is). Dien as 'n hoë-volume bespuiting toe, deur gebruik te maak van die boom-ry-volume formule, om die volume water wat per hektaar gebruik moet word, vas te stel. Verseker goeie benatting van die hele boom. Moenie minder as 500 ml / ha produk gebruik nie.

GEWAS	PLAAG	DOSIS	GEBRUIKSAANBEVELINGS
SIERPLANTE	Rooispinmyte (<i>Tetranychus urticae</i> (<i>cinnabarinus</i>))	40 mℓ / 100 ℓ water (4 mℓ / 10 ℓ water)	Dien as 'n hoë volume volle dekbespuiting toe, tot punt van afloop, deur gebruik te maak van tot 2 000 ℓ spuitmengsel per hektaar. Gebruik 'n minimum van 400 mℓ en 'n maksimum van 800 mℓ Hunter® 24 SC per hektaar. Toedienings moet gemaak word sodra volwasse myte voorkom. Kyk ook ALGEMENE AANWYSINGS en WEERSTANDBIEDENDHEIDSWAARSKUWING , asook GEBRUIKSBEPERKINGS (Sierplante , hierbo).
SITRUS	Blaaspootjies (<i>Scirtothrips aurantii</i>)	45 mℓ / 100 ℓ water Lokaas toediening 30 mℓ + 200 g wit- suiker / 100 ℓ water	Draende bome: Dien as 'n medium dekbespuiting, met 90 - 100 % blomblaarval toe. Verseker dat die bespuiting voordat die blomkelke toemaak, geskied. Nie-draende bome en bome in kwekerye: Dien met elke nuwe groei toe. Moenie meer as drie maal per seisoen toedien nie. Waar witluis 'n gereelde plaag in boorde is, moet dit slegs gebruik word as dit onder kommersiële beheer is. Lees ook ALGEMENE AANWYSINGS onder GEBRUIKSAANWYSINGS , hierbo. Voor- en nablomperiode: Afhangende van die boomgrootte, dien 5 – 10 ℓ spuitmengsel per boom toe, wanneer blaaspootjies opgemerk word. Moenie meer as drie toedienings per seisoen, en nie later as middel Desember toedien nie.
TAMATIES	Rooispinmyte [<i>Tetranychus urticae</i> (<i>cinnabarinus</i>) <i>Tetranychus lombardinii</i>]	60 mℓ / 100 ℓ water (525 - 1050 mℓ / ha)	Dien met die eerste tekens van 'n infestasië as 'n hoë- volume, hoëdruk-dekbespuiting, tot die punt van afloop toe. Gebruik tot 2 000 ℓ spuitmengsel per hektaar. Indien minder as 1250 ℓ spuitmengsel / ha gebruik word, sien minimum toedieningsdossisse hieronder. <u>Minimum dosis Hunter® 24 SC wat gebruik moet word per hektaar:</u> • Plante kleiner as 40 cm hoog: 525 mℓ / ha. • Plante groter as 40 cm hoog: 750 mℓ / ha. • Moenie minder as 750 mℓ / ha produk tydens hoë mytpopulasie druk gebruik nie. Verseker dat alle blare en vrugte deeglik benat word tydens bespuiting. Herhaal die behandeling indien nodig.

Torque® en **Fastac® SC** is Geregistreerde Handelsmerke van BASF.

RESTRICTED USE AGRICULTURAL REMEDY

THIS REMEDY IS RESTRICTED DUE TO ACUTE TOXICITY. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY A REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF A REGISTERED PEST CONTROL OPERATOR, AND ONLY FOR THOSE USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION, AND ONLY AS DIRECTED ON THIS LABEL.

Hunter® 24 SC

GROUP

13

INSECTICIDE

Reg. No.: L8307, N-AR 0804

Act No. 36 of 1947

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

A suspension concentrate translaminar acaricide / insecticide, with mainly stomach and some contact activity, for the control of the pests mentioned on the crops listed.

'n Suspensiekonsentraat-translaminêre myt- en insekdoder, wat aktief is hoofsaaklik as maag- en in 'n mindere mate as kontakgif, vir die beheer van die plae vermeld op die genoemde gewasse.



DANGER

Hazard Statements:

Causes mild skin irritation.

Fatal if inhaled.

Toxic if swallowed.

May cause damage to organs (Central nervous system) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Do not breathe dust/gas/mist/vapours.

Wash contaminated body parts thoroughly after handling.

Active ingredient / Aktiewe bestanddeel:

Chlorfenapyr (pyrrole)..... 240 g/l

Registered by / Geregistreer deur:

BASF South Africa (Pty) Ltd
Co. Reg. No. 66/10235/07
852 Sixteenth Road
P.O. Box 2801
Halfway House 1685
+27 11 203 2400

Batch No. & Date manufactured: Refer details printed on container

Lotnommer & Datum vervaardig: Verwys na besonderhede gedruk op houer

EMERGENCY NUMBERS: +27 82 446 8946 or +27 11 203 2420

In case of poisoning, call the following number: +27 82 446 8946

UN No. / VN Nr: 2902

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