



SPITFIRE 900 SP

Reg.No. L8197 Act No. 36 of 1947

Reg.Nr. L8197 Wet Nr. 36 van 1947

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.

BEPERKTE GEBRUIK VIR LANDBOUMIDDEL
HIERDIE MIDDEL IS BEPERK AS GEVOLG VAN
AKUTE TOKSISITEIT. HIERDIE MIDDEL MAG SLEGS
VERKOOP WORD AAN EN GEBRUIK WORD DEUR
'N GEREgistreERDE PLAAGBEHEEROPERATEUR,
OF DEUR IEMAND ONDER TOESIG VAN 'N
GEREGISTREERDE PLAAGBEHEEROPERATEUR,
EN SLEGS VIR DAARDIE GEBRUIKE WAT DEUR DIE
PLAAGBEHEEROPERATEUR SE OMVANG VAN
REGISTRASIE GEDEK WORD, EN SLEGS SOOS
AANGEDUI OP HIERDIE ETIKET.

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

LEES DIE INGESLOTE ETIKET VOOR GEBRUIK
HOU BUITE BEREIK VAN KINDERS EN DIERE

INSECTICIDE GROUP 1A

A water soluble powder short residual contact
insecticide for the control of insects on crops as listed.



DANGER

INSEKODER GROEP 1A

'n Wateroplosbare poeier kontakinsekdoder met 'n kort
nabylwende werking vir die beheer van verskeie insekte op
gewasse soos aangedui.

Hazard Statements:

Fatal if swallowed. Fatal if inhaled. Very toxic to aquatic life. Very toxic to
aquatic life with long lasting effects.

Precautionary statements:

Do not breathe dust, fumes, mist, vapours or spray. Wash hands, face, and
any exposed skin thoroughly after handling. Do not eat, drink or smoke
when using this product. Use only outdoors in a well-ventilated area. Avoid
release to the environment. Wear PPE.

ACTIVE INGREDIENT

Methomyl (carbamate)

900 g/kg

AKTIEWE BESTANDDEEL

Metomil (karbamaat)

Net Mass

Netto Massa

Registered by/Geregistreer deur:

BITRAD CONSULTING (PTY) LTD

41 Rudolph Str, Sunderland Ridge, Centurion. Tel: 012 666 7331

BATCH NUMBER
DATE MANUFACTURED

LOTNOMMER
DATUM VERVAARDIG

Expiry date

< 2 years/jaar

Vervaldatum

UN No.
Emergency number

2757
082 446 8946

VN nr.
Noodnommer

National Poisons Centre: 0861 555 777

WARNINGS

Hazard Statements

Fatal if swallowed or inhaled
Very toxic to aquatic life with long lasting effect

PRE-HARVEST INTERVALS:

MINIMUM NUMBER OF DAYS WHICH MUST BE ALLOWED BETWEEN THE LAST APPLICATION AND HARVEST OR GRAZING:

Brussels sprouts, Broccoli,	
Cabbage and Cauliflower.....	4 days
Citrus (for 20 g per 100 litre dosage).....	2 days
Citrus (for higher dosages).....	28 days
Green beans and Potatoes.....	3 days
Grain sorghum, Grazing, Lucerne,	
Lupins, Maize and Wheat.....	7 days
Peaches.....	16 days
Sunflowers.....	28 days
Tobacco (flue-cured).....	7 days
Tobacco (air-cured).....	14 days
Tomatoes.....	2 days

RE-ENTRY:

Do not enter treated area within 2 days after application unless wearing protective clothing

AERIAL APPLICATION:

Notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings.

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 user to follow 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

• General

If medical advice is needed, present label to physician
Read label carefully and follow all instructions

• Prevention

Do not breathe dust or spray vapour
Wash hands, face and exposed skin thoroughly after handling
Do not eat, drink or smoke when using product
Use only outdoors or in well ventilated area
Avoid release to the environment
In case of inadequate ventilation, wear respiratory protection

• Response

If swallowed: Get emergency medical help immediately
If Inhaled: Remove person to fresh air, keep comfortable and get immediate medical help
Specific treatment is urgent. See ANTIDOTE - NOTE TO PHYSICIAN
Rinse mouth
Collect spillage

- **Storage**

Keep container tightly closed and store locked up in a well ventilated place
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- **Disposal**

Dispose of content or container to an approved waste disposal facility
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RELEVANT SUBSTANCES

Hazardous Component	Weight - %	GHS Classification
Methomyl	90	Acute Toxicity Oral – Category 1. Acute Toxicity Inhalation – Category 1. Aquatic Toxicity Acute – Category 1 Aquatic Toxicity Chronic – Category 1.

ANTIDOTE - NOTE TO PHYSICIAN:

Preferred treatment of poisoning in adults is Atropine sulphate 2 - 4 mg, intravenously, repeated at 10 to 30 minute intervals until atropinization (dry flushed skin and tachycardia) appears. Pralidoxime (2 PAM, Protopam) and other oximes are contra indicated. However, for exposure to both **SPITFIRE™ 900 SP** and an organophosphorous insecticide, 2 PAM may be used as required to supplement the atropine sulphate treatment as described.

FIRST AID TREATMENT

- ALWAYS OBTAIN TREATMENT FROM A PHYSICIAN IMMEDIATELY.
- Remove patient from source of exposure to a well-ventilated area.
- Keep the patient quiet and reassured.
- Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and water.
- Do not rub skin.
- Flush contamination out of eyes with clean water for at least 15 minutes.
- If swallowed induce vomiting by tickling the back part of the throat.
- Repeat until vomit is clear and free from the smell of poison.
- Administer artificial respiration or closed chest cardiac massage if necessary.
- Do not apply direct mouth-to-mouth respiration.
- Never give anything by mouth to an unconscious person.
- Call a physician immediately and advise him of poisoning, or transport patient to a physician or hospital, whichever is fastest.
- SHOW THIS LABEL TO THE PHYSICIAN.

RESISTANCE WARNING

For resistance management, **SPITFIRE™ 900 SP** is a group code **1A** insecticide. Any insect population may contain individuals naturally resistant to **SPITFIRE™ 900 SP** and other group code **1A** insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **SPITFIRE™ 900 SP** or any other group code **1A** insecticide.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticide from the same insecticide group code.
- Alternate or tank mix with products from different insecticide codes.
- Integrate other control methods (chemical, cultural, biological) into insect control programmes.

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

MODE OF ACTION

Spitfire belongs to the carbamate insecticide group which is classified under IRAC (Insecticide Resistance Action Committee) group code 1A with insecticidal action as acetylcholine esterase inhibitors.

DIRECTIONS FOR USE:

USE ONLY AS DIRECTED

For period that has to be allowed between last treatment and harvest, see “WARNINGS”.

COMPATIBILITY

- **SPITFIRE™ 900 SP** is compatible with most fungicides and insecticides normally used.
- IT IS NOT COMPATIBLE WITH ALKALINE MATERIALS.
- **Do not use in combination with G-49 wetter on tobacco seedbeds or on citrus.**

AERIAL APPLICATION

Aerial application of **SPITFIRE™ 900 SP** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118:2009 (Aerial Application of Agricultural Remedies). 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 at least 30 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 to 40 droplets per cm² must be recovered at the target area.
 - Droplet size: A droplet spectrum with a VMD of 250 to 280 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
 - Flying height: Maintain the height of the spray boom at 3 to 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 to 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

MIXING INSTRUCTIONS

1. Fill spray tank with water from ¼ to ½ of its volume. Start agitation (use mechanical or hydraulic agitator).
2. Add the required number of **SPITFIRE™ 900 SP** water soluble sachets immediately to the water in the spray tank.
3. Do not touch water soluble sachets with bare hands or allow them to become wet before adding to contents of spray tank - wear dry rubber gloves.
4. Fill spray tank with water to the required volume and continue agitation for several minutes before spraying in order to dissolve water soluble sachets and its contents entirely.

APPLICATION TABLE

CROP/PEST	DOSAGE	DIRECTIONS FOR APPLICATION
BEANS: Africa bollworm	Aerial application: 250 g per ha	Apply in 30 litres water per ha. as soon as the larvae appear. Repeat if necessary. (See AERIAL APPLICATION above.)
	Ground application: 50 g per 100 ℓ water	Spray thoroughly to ensure good coverage. Apply up to 500 litres spray mixture per ha. depending on crop size. Repeat if

		necessary.
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CROP/PEST	DOSAGE	DIRECTIONS FOR APPLICATION
CITRUS: Aphids Africa bollworm Mealy bug Orange dog caterpillar Red scale Soft green scale Waxy scale	Ground application: 20 g per 100 ℓ water Aerial application: 250 g per ha. 20 g per 100 ℓ water 25 g per 100 ℓ water 100 g SPITFIRE™ 900 SP + 3 ℓ narrow range mineral oil per 100 ℓ water 20 g SPITFIRE™ 900 SP + 500 mℓ narrow range mineral oil per 100 ℓ water. 25 g per 100 ℓ water	Apply as a light cover spray as soon as pests appear. Repeat when necessary. Apply in 50 litres water per ha. as soon as aphids and larvae appear. Repeat when necessary. (See AERIAL APPLICATION above.) Apply as a full cover spray with a high-pressure sprayer as soon as nymphs appear on the fruit. Repeat if necessary. Apply as a light cover spray as soon as larvae are noticed. Corrective treatment: Apply when 25 - 40 % of the fruit is infested with one or more live nymphs or adult scale. Bearing trees: Apply only once between December and March and on early maturing cultivars between December and January. Use only high-pressure hand spray guns. (compressor type). Do not apply with conventional citrus spray rigs. Apply as a full cover spray with a high-pressure pump when the first visible signs of infestation are seen. Do not use less than 500 mℓ narrow range mineral oil per 100 litres water. Apply as a full cover spray with a high-pressure pump as soon as the young nymphs of a new generation move from the leaves to the twigs. This treatment will not be successful against adult waxy scale.
CRUCIFERAE: (Broccoli, Brussels sprouts, Cauliflower, Cabbage) Africa bollworm Aphids Diamond-back moth and Greater cabbage moth larvae	Aerial application: 250 g per ha. Ground application: 250 g per ha. Ground application: 50 g per 100 ℓ water	Apply in 30 litres water as soon as larvae appear. Repeat if necessary. (See AERIAL APPLICATION above.) Apply in sufficient water to ensure good coverage. Repeat if necessary. Apply when pests first appear on the leaves and repeat weekly. Use up to 500 litres spray mixture per ha. During hot weather and peak infestation repeat application at intervals of 3 - 5 days. Ensure the thorough wetting of plants.
GRAIN SORGHUM, WHEAT, LUPINS AND LUCERNE: Africa bollworm	Aerial application: 200 g per ha. Ground application: 200 g per ha. 50 g per 100 ℓ water	Apply in 30 litres water as soon as larvae are noticed. Repeat if necessary. (See AERIAL APPLICATION above.) Low volume: Apply in 100 - 200 litres water. High volume: Apply up to 400 litres spray mixture per ha. Repeat if necessary.
GRAZING AND OTHER CROPS: Army worm	Ground application: 50 g per ha.	Apply in 400 litres water as soon as infestation is noticed.

MAIZE: African bollworm Fall army worm	Aerial application: 200 g per ha. Ground application: 200 g per ha. 50 g per 100 ℓ water	SPITFIRE™ 900 SP WILL NOT KILL LARVAE WHICH HAVE ALREADY ENTERED THE COB Apply in 30 litres water per ha. as soon as larvae are observed on the silks. (See AERIAL APPLICATION above.) Low volume: Apply in 100 - 200 litres water. High volume: Apply up to 400 litres spray mixture per ha.
PEACHES: False codling moth	50 g per 100 ℓ water	Early varieties: Apply two sprays ensuring that the trees are thoroughly wetted. Apply the first spray 4 weeks before harvest and the second spray 10 days later. Late varieties: Apply 3 sprays ensuring that the trees are thoroughly wetted. Start 6 weeks before harvest and repeat at 10-day intervals. REGISTERED TREATMENTS FOR FRUIT FLY CONTROL SHOULD ALSO BE APPLIED (TO BOTH EARLY AND LATE VARIETIES).
POTATOES: Potato tuber-moth (larvae) Africa bollworm	Aerial application: 300 - 500 g per ha. Ground application: 50 g per 100 ℓ water	Apply in 30 litres of water per ha. (See AERIAL APPLICATION above.) Use the higher dosage if the spray interval exceeds one week. For tuber moth apply as soon as the plant is one month old and repeat applications weekly throughout the growing season. Potatoes must be ridged at least twice during the growing season. For Africa bollworm one application is enough to control one outbreak. If further outbreaks occur repeat applications as necessary. Ensure a good coverage and wetting of the plants. Apply up to 1 000 litres spray mixture per ha.
SUNFLOWERS: Africa bollworm	Aerial application: 100 g SPITFIRE™ 900 SP + 100 ml cypermethrin EC per ha.	Apply in at least 30 litres water per ha. as soon as eggs or larvae are noticed on the plants (approximately 6 weeks after planting). (See AERIAL APPLICATION above.) These products are only effective against larvae on the leaves and on the outside of the heads. SPITFIRE™ 900 SP WILL NOT KILL LARVAE WHICH HAVE ALREADY ENTERED THE HEADS. SPITFIRE™ 900 SP AND CYPERMETHRIN ARE TOXIC TO BEES AND SHOULD THUS NOT BE SPRAYED IN THE FULL BLOSSOM PERIOD.

CROP/PEST	DOSAGE	DIRECTIONS FOR APPLICATION
TOBACCO: Africa bollworm Tobacco slug Green stinkbugs (Pentatomidae) Leaf miner	Aerial application: 250 g per ha. Ground application: 50 g per 100 ℓ water Ground application: 50 g per 100 ℓ water	Apply in 30 litres water when pests are noticed. Repeat if necessary. (See AERIAL APPLICATION above.) Apply when pests are noticed. Repeat if necessary. Apply up to 500 litres spray mixture per ha. Spray and wet plants thoroughly as soon as infestation is noticed. Repeat at weekly intervals. Apply up to 500 litres spray mixture per ha.
TOMATOES: Africa bollworm Tomato semi-looper Leaf miner Aphids Thrips	Ground application: 50 g per 100 ℓ water	Apply as a full cover spray as soon as fruit begins to set or earlier if necessary and repeat at 7 - 10 day intervals during the growing season.

WAARSKUWINGS

- **Gevaarklousules**

Dodelik indien ingesluk of inge-asem word
Uiters giftig vir waterlewe

- **WAGPERIODES VOOR OES: MINIMUM AANTAL DAE WAT MOET VERSTRYK TUSSEN DIE LAASTE TOEDIENING EN OES OF WEIDING (VOER)**

Aartappel en Groenbone.....	3 dae
Blomkool, Brokkoli, Spruitkool, en Kopkool.....	4 dae
Graansorghum, Koring, Lupiene, Lusern, Mielies en Weiding.....	7 dae
Perskes.....	16 dae
Sitrus (vir 20g per 100 liter dosis).....	2 dae
Sitrus (vir hoër dosis).....	28 dae
Sonneblom.....	28 dae
Tabak (oondroog).....	7 dae
Tabak (lugdroog).....	14 dae
Tamaties.....	2 dae

- **HERBETREDING:** Moet nie behandelde area binne 2 dae na toediening betree tensy beskermende klere gedra word nie.
- **LUGTOEDIENING** - Stel alle inwoners in die nabye omgewing in kennis van die area wat bespuit gaan word en reik die nodige waarskuwings uit.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is waarborg die registrasiehouer nie dat dit onder all 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, en omgewing of vir nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel 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

- **Algemeen**

Indien mediese hulp benodig word, verskaf hierdie etiket aan geneesheer
Lees etiket sorgvuldig en volg alle aanwysings

- **Voorkoming**

Moet nie die poeier of spuitdampe inasem nie
Was hande, gesig en blootgestelde vel deeglik na hantering
Moet nie eet, drink of rook wanneer produk gebruik word nie
Gebruik buitenshuis of in goed deurlugte area
Voorkom vrystelling in die omgewing
In geval van onvoldoende deurlugting, dra respirator

- **Reaksie**

Indien ingesluk:
Indien ingeasem:
Spesifieke behandeling is dringend. Sien TEENMIDDEL - NOTA AAN GENEESHEER
Spoel mond
Versamel gemorsde material

- **Storing**

Hou houder deeglik toe en stoor agter slot en grendel in goed deurlugte plek
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- **Wegdoening**

Doen weg met inhoud en/of houers deur te lewer aan goedgekeurde afval hanteringsfasiliteite

BETROKKE BESTANDDELE

Gevaarlike Bestandeel	Massa - %	GHS Classification
Metomiel	90	Akkute Giftigheid Oraal – Kategorie 1. Akkute Giftigheid Inaseming – Kategorie 1. Waterlewe Toks Akkuut – Kategorie 1 Waterlewe Giftigheid Kronies– Kategorie 1

TEENMIDDEL - NOTA AAN GENEESHEER

In die geval van volwassenes moet Atropien-sulfaat 2 - 4 mg, binnears toegedien word.

Herhaal elke 10 tot 30 minute totdat pasiënt ten volle ge-atropiniseer is (droë gloeiende vel en tagikardie). Pralidoxime (2 PAM, Protopam) en ander oksieme het die teenoorgestelde uitwerking en moet NIE gebruik word nie.

In geval van blootstelling aan sowel **SPITFIRE™ 900 SP** as 'n organiese fosfaatinsekdoder mag 2 PAM gebruik word soos benodig om die voorgeskrewe atropien-sulfaat behandeling aan te vul.

NOODHULPBEHANDELING:

- VERKRY ALTYD ONMIDDELLIK BEHANDELING VAN 'N GENEESHEER.
- Verwyder persoon van die oorsaak van vergiftiging (na 'n koel en goed geventileerde omgewing).
- Stel hom gerus en hou hom stil.
- Verwyder besoedelde klere en spoel die besmette liggaamsdele met baie seep en koue water af.
- Moet nie die vel hard vrywe nie.
- Besmette oë moet vir minstens 15 minute met skoon water uitgespoel word.
- Indien per mond ingeneem, veroorsaak braking deur die agterste gedeelte van die keel met vinger te prikkel.
- Herhaal totdat braaksel helder is en nie meer na gif ruik nie.
- Pas kunsmatige asemhaling of geslote hartmassering toe indien nodig.
- Moet nie direkte mond-tot-mond asemhaling toepas nie.
- Moet nooit iets per mond aan 'n bewustelose persoon toedien nie.
- 'n Geneesheer moet onmiddellik ontbied word of die pasiënt moet onmiddellik na die naaste hospitaal of geneesheer vervoer word, afhangende watter die vinnigste is.
- STEL DIE ETIKET BESIKBAAR AAN DIE GENEESHEER.

WEERSTANDWAARSKUWING

SPITFIRE™ 900 SP is 'n groepkode **1A** insekdoder. Enige populasie van 'n spesifieke insek mag individue insluit wat 'n natuurlike weerstand teen **SPITFIRE™ 900 SP**, of enige ander groepkode **1A** insekdoder het. Indien hierdie insekdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die insekpopulasie oorheers. Hierdie weerstandbiedende insekte sal waarskynlik nie deur **SPITFIRE™ 900 SP** of enige ander groepkode **1A** insekdoder beheer word nie.

Om weerstand teen insekdoders te vertraag:

- Vermyn die eksklusiewe herhaaldelike gebruik van insekdoders met dieselfde groepkode.
 - Wissel af met, of gebruik tenkmengsels van produkte in verskillende insekdodergroepkodes.
 - Integreer ander beheermaatreëls (chemies, verbouing, biologies) in insekdoderprogramme.
- Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

. WERKINGSMETODE

Spitfire het betrekking op senuwee-impulse. Dit inhibeer die ensiem astielcholinesterase, wat die afbraak van asetielcholin verhoed en die oormaat astielcholin lei tot hiperaktiwiteit.

GEBRUIKSAANWYSINGS:**GEBRUIK SLEGS SOOS AANGEDUI****VERENIGBAARHEID**

- **SPITFIRE™ 900 SP** is verenigbaar met meeste swamdoders en insekmiddels normaalweg gebruik.
- DIT IS NIE VERENIGBAAR MET ALKALIESE STOWWE NIE.
- **Moet nie in kombinasie met G-49 benatter op tabaksaadbeddings of sitrus gebruik nie.**

LUGTOEDIENING

SPITFIRE™ 900 SP kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS 10118:2009 (Aerial Application of Agricultural Remedies) 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 Spuitmengsel volume van minstens 30 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.
- Druppel bedekking: 30 tot 40 druppels per cm² moet op die teikenarea herwin word.
- Druppelgrootte: 'n Druppelspektrum met 'n VMD van 250 tot 280 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- Vlieghoogte: Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik nie, 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 tot 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 swaaihygrometer, moet nie 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

MENGINSTRUKSIES

1. Vul die spuittenk ¼ tot ½ met water. Skakel roermeganisme (meganies of hidrolies) aan.
2. Plaas die verlangde aantal **SPITFIRE™ 900 SP** wateroplosbare sakkies onmiddellik in die water in spuittenk.
3. Moet nie die wateroplosbare sakkies met kaal hande aanraak nie of laat nat word voor dit by die inhoud van die spuittenk gevoeg word - dra droë rubberhandskoene.

Vul die spuittenk verder met water tot verlangde volume en hou aan met roer vir 'n paar minute voor gespuit word om die sakkies en die inhoud daarvan volledig op te los

TOEDIENINGSTABEL

GEWAS/PLAAG	DOSIS	GEBRUIKSAANWYSINGS
AARTAPPELS: Aartappelmot (larwes) Afrika bolwurm	Lugtoediening: 300 - 500 g per ha. Grondtoediening: 50 g per 100 l water	Dien toe in 30 liter water. (Sien LUGTOEDIENING hierbo.) Gebruik die hoër dosis as die spuit tussenpose langer as een week is. Vir aartappelmot, begin toedien sodra die plant een maand oud is en herhaal toedienings weekliks gedurende die groeiseisoen. Aartappels moet ten minste twee maal gedurende die groeiseisoen opgeërd word. Vir Afrikabolwurm is een toediening genoeg om een verskyning te beheer. Indien verdere verskynings plaasvind herhaal toediening soos nodig. Sorg vir 'n goeie bedekking en benatting van die plant. Dien tot 1 000 liter spuitmengsel per ha. toe.
BOONTJIES: Afrika bolwurm	Lugtoediening: 250 g per ha. Grondtoediening: 50 g per 100 l water	Dien in 30 liter water toe sodra die larwes opgemerk word. Herhaal indien nodig. (Sien LUGTOEDIENING hierbo.) Sorg vir goeie benatting van plante. Dien tot 500 liter spuitmengsel per ha toe afhangende van gewasgrootte. Herhaal indien nodig.
GRAANSORGHUM, KORING, LUPIENE EN LUSERN: Afrika bolwurm	Lugtoediening: 200 g per ha. Grondtoediening: 200 g per ha. 50 g per 100 l water	Dien in 30 liter water toe sodra die larwes opgemerk word. Herhaal indien nodig. (Sien LUGTOEDIENING hierbo.) Lae volume: Dien in 100 - 200 liter water toe. Hoë volume: Dien tot 400 liter spuitmengsel per ha toe. Herhaal indien nodig.
KOOLGEWASSE: (Brokkoli, Spuitkool, Blomkool, Kopkool) Afrika bolwurm Larwes van die Ruitrugmot Grootkoolmot Plantluise	Lugtoediening: 250 g per ha Grondtoediening: 250 g per ha 50 g per 100 liter water	Dien in 30 liter water toe sodra die larwes hulle verskyning maak. Herhaal indien nodig. (Sien LUGTOEDIENING hierbo.) Dien in genoeg water toe om 'n goeie bedekking te verseker. Herhaal indien nodig. Dien toe wanneer plaë vir die eerste keer op die blare verskyn. Herhaal weekliks. Gebruik tot 500 liter spuitmengsel per ha. Gedurende warm weer en hoë infestasië, verkort die spuit tussenposes na 3 - 5 dae. Sorg dat die plante deeglik benat word.

GEWAS/PLAAG	DOSIS	GEBRUIKSAANWYSINGS
MIELIES: Afrika bolwurm Herfskommandowurm	Lugtoediening: 200 g per ha. Grondtoediening: 200 g per ha. 50 g per 100 liter water	SPITFIRE™ 900 SP SAL NIE LARWES DOOD WAT REEDS DIE MIELIEKOP BINNEGEDRING HET NIE. Dien in 30 liter water toe sodra die larwes op die baard opgemerk word. (Sien LUGTOEDIENING hierbo.) Lae volume: Dien in 100 - 200 liter water toe. Hoë volume: Dien tot 400 liter spuitmengsel per ha toe.
PERSKES: Valskodlingmot	50 g per 100 l water	Vroeë variëteite: Dien twee bespuitings toe en sorg dat die bome deeglik benat word. Dien die eerste bespuiting 4 weke voor oestyd toe en die tweede bespuiting 10 dae later. Laat variëteite: Dien 3 bespuitings toe en begin 6 weke voor oes en herhaal met tussenposes van 10 dae. Verseker goeie benatting van die bome. DIEN OOK 'N GEREGISTREERDE PRODUK TOE VIR DIE BEHEER VAN VRUGTEVLIEË OP BEIDE VROEË EN LAAT VARIËTEITE.
SITRUS: Plantluise Afrika bolwurm Lemoenvlinder (larwes) Rooidopluis Sagte groen dopluis Wasdopluis Witluise	Grondtoediening: 20 g per 100 l water Lugtoediening: 250 g per ha. 25 g per 100 l water 100 g SPITFIRE™ 900 SP + 3 l smalbestek minerale olie per 100 l water 20 g SPITFIRE™ 900 SP + 500 ml smalbestek minerale olie per 100 l water. 25 g per 100 l water 20 g per 100 l water	Dien toe as 'n ligte dekbespuiting wanneer die plantluise en/of larwes verskyn. Herhaal indien nodig. Dien toe in 50 liter water per ha sodra plantluise en larwes opgemerk word. Herhaal indien nodig. (Sien LUGTOEDIENING hierbo.) Dien toe as 'n ligte dekbespuiting sodra die larwes opgemerk word. Korrektiewe behandeling: Dien toe wanneer 25 - 40 % van die vrugte besmet is met een of meer lewende nimfe of volwasse dopluise. Draende bome: Dien slegs eenkeer toe vanaf Desember tot Maart en op vroeë kultivars vanaf Desember tot Januarie. Gebruik slegs hoë lugdruk handsputgewere (kompressor-tipe). Ander konvensionele sitrus bespuitings-apparaat moet nie gebruik word nie. Dien toe as 'n volle dekbespuiting met 'n hoëdrukspuitpomp met eerste tekens van besmetting. Moenie minder as 500 ml sitrus smalbestek minerale olie per 100 liter water gebruik nie. Dien toe as 'n volle dekbespuiting met 'n hoëdrukspuitpomp sodra die jong nimfe van 'n nuwe geslag vanaf die blare na die takkies beweeg. Hierdie behandeling sal nie suksesvol teen volwasse wasdopluis wees nie. Dien toe as 'n volle dekbespuiting met 'n hoëdrukspuitpomp sodra nimfe op vrugte voorkom. Herhaal indien nodig.

GEWAS/PLAAG	DOSIS	GEBRUIKSAANWYSINGS
SONNEBLUM: Afrika bolwurm	Lugtoediening: 100 g SPITFIRE™ 900 SP + 100 ml sipermetrin EC per ha.	Dien toe in ten minste 30 liter water per ha. sodra eiers of larwes op plante opgemerk word (ongeveer 6 weke na plant). (Sien LUGTOEDIENING hierbo.) Hierdie middels is slegs effektief teen larwes op die blare en aan die buitekant van die kop. SPITFIRE™ 900 SP SAL NIE LARWES WAT REEDS DIE KOP BINNEGEDRING HET, DOOD NIE. SPITFIRE™ 900 SP EN SIPERMETRIEN IS GIFTIG VIR BYE EN MOET NIE IN DIE VOLBLOMSTADIUM GESPUIT WORD NIE.
TABAK: Afrika bolwurm Tabakslak Groenstinkbesies (Pentatomidae) Blaarmyner	Lugtoediening: 250 g per ha. Grondtoediening: 50 g per 100 l water Grondtoediening: 50 g per 100 l water	Dien toe in 30 liter water wanneer plaë opgemerk word. Herhaal indien nodig. (Sien LUGTOEDIENING hierbo.) Dien toe wanneer plaë opgemerk word. Herhaal indien nodig. Dien tot 500 liter spuitmengsel per ha toe. Dien toe wanneer plaag opgemerk word en verseker deeglike benatting van plant. Spuit weekliks. Dien tot 500 liter spuitmengsel per ha. toe.
TAMATIES: Afrika bolwurm Valslandmeterlarf Plantluise Blaarmyner Blaaspootjie	Grondtoediening: 50 g per 100 l water	Dien toe as 'n volle dekbespuiting met vrugset of vroeër indien nodig en herhaal met tussenposes van 7 - 10 dae gedurende die groeiseisoen.
WEIDINGS EN ANDER GEWASSE: Kommandowurm	Grondtoediening: 50 g per ha.	Dien toe in 400 liter water per ha sodra besmetting opgemerk word.

LABEL - FOIL BAG (100 G)



SPITFIRE™ 900 SP

Reg.No. L8197 Act No. 36 of 1947

Reg.Nr. L8197 Wet No. 36 van 1947

ACTIVE INGREDIENT

Methomyl (carbamate)

.....900 g/kg.....

AKTIEWE BESTANDDEEL

Metomil (karbonaat)

Net Mass

100 g

Netto Massa



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Bitrad Consulting (Pty) Ltd

LABELLING – WATER SOLUBLE SACHET (100 G)

SPITFIRE™ 900 SP

Reg.No. L8197 Act/Wet No. 36 of/van 1947



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