

Mospilan[□] 20 SL

Reg. No./Reg Nr. L 5900 Act/Wet no/nr 36 of/van 1947.

A dissolved liquid systemic contact and stomach stem applied insecticide for the control of pests on citrus as indicated.

'n Oplosbare vloeistof, sistemiese kontak- en maag stamtoegediende insekdoder vir die beheer van plae op sitrus soos aangedui.

IRAC INSECTICIDE GROUP CODE 4A

ACTIVE INGREDIENT:

acetamiprid (acetamidine).....222 g/lit

Registered by :

MITSUI & CO., LTD.

Co. Reg. No. F/70/2

P. O. Box 9712

JOHANNESBURG, 2000

TEL : (011) 484-7250

Marketed by:

Plaaskem (PTY) LTD

Co. Reg No. 1972/013867/07

P.O. Box 14418

Witfield

1467

Tel : (011) 823 8000

www.plaaskem.co.za

□Product and registered Trade Name of

NIPPON SODA CO., LTD TOKYO, JAPAN

Batch no

Date of manufacture

AKTIEWE BESTANDDEEL:

asetamipried (asetamidien).....222 g/lit

Geregistreer deur :

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□Produk en geregistreerde Handelsnaam van NIPPON

SODA CO., LTD TOKYO, JAPAN.

Lotnr.

Datum van vervaardiging.



WARNINGS :

- WITHHOLDING PERIODS: Minimum time between last application and harvest or feeding.
Citrus 150 days
- Handle with care.
Harmful by swallowing, inhalation and contact with skin.
- Causes mild eye and skin irritation
- Toxic to fish, bees and wildlife.
- Keep out of reach of children, uninformed persons and animals.
- Store away from food and feed.
- In case of accidental poisoning, CALL A DOCTOR AND MAKE THIS LABEL AVAILABLE TO HIM.
- **Re-entry interval:** Do not enter treated area within 1 day after treatment unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the 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 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:

- Avoid inhalation and contact with skin.
- Accidental splashes should be washed off immediately.
- Wear rubber gloves and face shield when handling the concentrate.
- Do not eat, drink or smoke whilst applying the insecticide or before washing hands and face.
- Prevent contamination of food and feed, food utensils and drinking water.
- Prevent contamination of springs, dams and rivers.
- Clean applicator after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Destroy empty containers and do not use for any other purpose. Containers and packages must be completely emptied before being disposed of. Shake out thoroughly into the mixing or spray tank before destroying the empty container.
- Absorb spillage with sand. Gather and bury the sand far from water sources and crops.

USE RESTRICTIONS:

- I. Do not apply to green wood in nurseries or transplanted trees
- II. **Do not apply to trees under stress (e.g. caused by drought, water logging, root- and stem rot, nematodes etc.) as systemic uptake, translocation and insecticidal activity will be impaired.**
- III. Ensure that sufficient soil moisture is present at time of application. First irrigate and then apply a day or so later on dry stems.
- IV. Trees must be actively growing when treated.
- V. Do not apply more than twice per season to minimise development of resistance to **MOSPILAN 20 SL**. Imidacloprid is chemically related to acetamiprid (active of **MOSPILAN 20 SL**) and as a strategy against resistance, should not be used in a **MOSPILAN 20 SL** containing programme.
- VI. Do not apply **MOSPILAN 20 SL** over any other stem or systemic soil treatment and vice versa, as systemic and insecticidal activity of this product may be impaired or result in phytotoxicity.
- VII. Do not wet treated stems / trunks by means of irrigation for at least 48 hours after application and do not apply to wet stems.
- VIII. Low temperatures will reduce rate of systemic translocation from site of application to target insects.
- IX. Alternate **MOSPILAN 20 SL** with chemically unrelated insecticides to prolong its effective lifespan.
- X. **Soiled stems will impair uptake of MOSPILAN 20 SL and activity. Remove dust, soil, loose bark and filth before application.**

SYMPTOMS OF HUMAN POISONING:

No characteristic symptoms demonstrated.

FIRST AID TREATMENT:

Ingestion: In case of ingestion, make the patient vomit, except if he is unconscious. Make him drink a glass of water containing one tablespoon of salt and tickle the back of the patient's throat with a finger.

Skin contamination: Take off soiled clothing and wash affected areas carefully with soap and water.

NOTE TO PHYSICIAN: (Medical assistance.)

Treat symptomatically

RESISTANCE WARNING:

For resistance management, **MOSPILAN 20 SL** is a group 4A insecticide. Any insect population may contain individuals naturally resistant to **MOSPILAN 20 SL** and other group code 4A insecticides. The resistance can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **MOSPILAN 20 SL** or any other group code 4A insecticide.

To delay insecticide resistance:

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

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

DIRECTIONS FOR USE: Use only as directed.**Compatibility:**

Do not mix **MOSPILAN 20 SL** with any other product. This product is compatible with nitrile seals in the Calibra stem applicator. Should incompatibility be experienced, contact Quest Developments.

STEM TREATMENT FOR INTEGRATED PEST MANAGEMENT (IPM):

Apply **undiluted** to stems / trunks of actively growing bearing and non-bearing trees, avoiding green stem tissue because of possible phytotoxicity. Measure the average canopy height (excluding skirt height) and width (diameter) (not including single branches which are not part of the compact canopy) of a representative sample of trees in the orchard **just prior to application** and calculate the average canopy surface area by multiplying the height in meters (m) by the width in meters (m) giving the canopy surface area ($=m^2$). Should trees with clearly identifiable different canopy sizes occur in any orchard, they should be differentially treated with the correct dosage. When making use of a paint brush for stem treatment, the correct dose for a canopy surface area must be placed in container and the total amount applied around the trunk just below the first fork of branches with the brush.

DO NOT APPLY TO WET STEMS / TRUNKS AND DO NOT WET TREATED STEMS / TRUNKS BY IRRIGATION FOR AT LEAST 48 HOURS AFTER APPLICATION.

Effects of rainfall or irrigation on rainfastness and penetration of the product to the vascular system underneath bark tissue are not fully understood. After application, insecticidal activity should be continuously be monitored by intensive scouting to establish the need for further measures.

CROP / PEST	DOSAGE	REMARKS
Citrus: Except nursery trees and young transplants with green stem tissue and lemon trees.		
Red scale <i>(Aonidiella aurantii)</i>	2 – 3 ml / m ² canopy surface area [height (without skirt) x canopy diameter (between rows)]	Apply to stems mid – Oct to mid – Dec allowing 150 days between application and harvest and treating late cultivars later but not later than mid-Dec. Use higher dosage when infestation is high with lower doses under normal low level infestations. Continue scouting and apply further measures when necessary. Early crawler movements before Mospilan SL treatment, may result in fruit "pitting" and must be controlled when necessary.
Mealy bug (All species)	2 ml / m ² canopy surface	Follow the same programme as against red scale above unless earlier control is necessary.
Citrus leafminer <i>(Phyllocnistis citrella)</i>	2 ml / m ² canopy surface	The programme against red scale will also control leafminer and application should be repeated against late infestations of this pest in warmer areas.
Aphids <i>(Aphis gossypii)</i> and <i>Toxoptera citrida</i>	2 ml / m ² canopy surface	Apply when aphids need to be controlled. A red scale programme will also control aphids.
Psylla <i>(Trioza eryteae)</i>	2 ml / m ² canopy surface	Apply in areas where needed and repeat as scouting indicates and observe the pre-harvest interval.

WAARSKUWINGS :

- ONTHOUDINGSPERIODES: Minumum tyd wat moet verstryk tussen die laaste toediening en oes of voer.

Sitrus 150 dae

- Hanteer versigtig.
- Skadelik wanneer ingeneem, ingeasem of deur velkontak.
- Veroorsaak matige oog- en vel irritasie
- Giftig vir visse, bye en wild.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Bewaar weg van voedsel en voer.
- Ingeval van toevallige vergiftiging, ONTBIED 'N GENEESHEER EN STEL HIERDIE ETIKET AAN HOM BESKIKBAAR.
- **Herbetredingsinterval:** Moet nie behandelde land betree vir 1 dag na die bespuiting nie, tensy beskermende klere gedra word.

Hoewel hierdie produk onder 'n groot verskeidenheid klimaatstoestande getoets is, waarborg die registrasiehouer nie dat hierdie produk onder alle omstandighede doeltreffend en veilig op die gewas sal wees nie omdat die uitwerking van die chemikalieë deur faktore soos abnormale klimaats- en bergingstoestand sowel as metode en akkuraatheid van toediening beïnvloed word. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir gewasskade of vir ondoeltreffendheid as gevolg van die versuim van die gebruiker om die etiketaanbevelings na te volg of as gevolg van die ontstaan van toestande wat die registrasiehouer nie redeliker wyse kon voorsien nie. Raadpleeg u verskaffer in geval van enige onsekerheid.

VOORSORGMATREËLS :

- Voorkom inaseming van en velkontak met middel.
- Toevallige spatsels moet onmiddellik afgewas word.
- Dra rubberhandskoene en gesigskerm wanneer die konsentraat hanteer word.
- Moet nie eet, drink of rook tydens toediening van die insekdoder of voordat hande en gesig gewas is nie.
- Voorkom besoedeling van voedsel, voer, eetgerei en drinkwater.
- Voorkom besoedeling van fonteine, damme en riviere.
- Maak toedieningsapparaat skoon na gebruik en doen weg met waswater waar dit nie gewasse, weiding, riviere en damme sal besoedel nie.
- Vernietig leë houers en moet nie vir enige ander doel gebruik nie. Houers en verpakkings moet heeltemal leeggemaak word voordat hulle vernietig word. Skud die houers deeglik uit in die mengbak of spuitneuk voordat leë houers vernietig word.
- Absorbeer enige gestorte produk met sand. Versamel en begrawe sand van waterbronne en gewasse.

GEBRUIKSBEPERKINGS:

- I. Moet nie aan groen hout in kwekerie- of verplante bome toedien nie.
- II. **Moet nie in plante toedien wat onder stremming is nie (bv. veroorsaak deur droogte, versuiping, wortel- en stamvrot, aalwurm ens.) omdat sistemiese opname, translokasie en insekdodende aktiwiteit nadelig beïnvloed sal word.**
- III. Maak seker dat voldoende grondvog aanwesig is tydens toediening. Besproei eers en dien dan 'n dag of so later toe op droë stamme.
- IV. Bome moet aktief groei tydens toediening.
- V. Moet nie meer as tweemaal per seisoen toedien nie om die moontlike ontwikkeling van weerstand teen **MOSPILAN 20 SL** te verminder. Imidakloprid is chemies verwant aan asetamiprid (aktief van **MOSPILAN 20 SL**) en as 'n strategie teen weerstand, moet dit nie in 'n **MOSPILAN 20 SL** bevattende program gebruik word nie.
- VI. Moet nie **MOSPILAN 20 SL** oor enige ander sistemiese stam- of grondbehandeling en omgekeerd toedien nie omdat sistemiese en insekdodende aktiwiteit van **MOSPILAN 20 SL** benadeel mag word of lei tot plantbeskadiging.
- VII. Moet nie behandelde stamme vir ten minste 48 uur d.m.v. besproeiing benat nie en moet nie op nat stamme aanwend nie.
- VIII. Lae temperature sal die tempo van translokasie vanaf die plek van toediening na die teikeninsekte verlaag.
- IX. Wissel **MOSPILAN 20 SL** af met chemies onverwante insekdoders om die produk se doeltreffende lewensduur te verleng.
- X. **Moet nie aan vuil stamme (stof, grond en stukkie bas) toedien nie voordat stamme skoongemaak is.**

SIMPTOME VAN MENSLIKE VERGIFTIGING:

Geen kenmerkende simptome aangetoon nie.

EERSTEHULPBEHANDELING:

Inname: In geval van inname, maak pasient vomeer, behalwe wanneer bewusteloos. Kry hom om 'n gals water met een eetlepel sout te drink en streel die agterkant van die pasient se keel met 'n vinger. Behandel simptome.

Velbesoedeling: Trek besoedelde klere uit en was gekontamineerde dele met seep en water.

NOTA AAN GENEESHEER (Mediese bystand)

Behandel simptome.

WEERSTANDSWAARSKUWING:

MOSPILAN 20 SL is 'n groepkode 4 A insekdoder. Enige populasie van 'n spesifieke insek mag individue insluit wat 'n natuurlike weerstand teen **MOSPILAN 20 SL** of enige ander groepkode 4 A insekdoders het. Indien hierdie insekdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die insekpopulasie oorheers. Hierdie weerstandbiedende insekte sal waarskynlik nie deur **MOSPILAN 20 SL** of enige ander groepkode 4 A 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 tenkengsels van produkte in verskillende insekdodergroepcodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies in insekdoderprogramme)

Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui.**VERENIGBAARHEID:**

Moet nie **MOSPILAN 20 SL** met enige ander produk meng nie. Hierdie produk is verenigbaar met die nitrielseels in die Calibra stamtoediener. Indien onverenigbaarheid ondervind word, raadpleeg Quest Developments.

STAMBEHANDELING VIR GEÏNTEGREERDE PLAAGBESTUUR ("IPM")

Dien **onverdund** toe aan stamme van aktiefgroeïende draende en nie-draende bome en vermy groen stamweefsel om moontlike beskadiging uit te skakel. Bepaal die gemiddelde blaarkroonhoogte (sonder die "skirthoogte") en wydte (deursnit) (uitgesonderd enkel takke wat nie deel is van die kompakte blaarkroon) van 'n verteenwoordigende aantal bome in die boord net voor toediening. Bereken die gemiddelde blaarkroonoppervlakte deur die hoogte in meter (m) met die deursnit (m) te vermenigvuldig ($=m^2$). Indien bome met duidelik sigbare verskillende blaarkroongroottes voorkom, moet hulle met die korrekte dosis behandel word.

Indien gebruik gemaak word van 'n verfkwas vir stambehandeling, moet die korrekte heoveelheid vir die kroongrootte, in 'n houer geplaas word en alles aan die stam met die kwas net onderkant die eerste raamtakvlak aangewend word.

MOET NIE OP NAT STAMME TOEDIEN NIE EN MOET NIE BEHANDELDE STAMME VIR TEN MINSTE 48 UUR NA TOEDIENING MET BESPROEÏNG BENAT NIE.

Die invloed van reën of besproeiing op reënvasheid en binnedringing van die produk tot by die vaatbundelsisteem onder basweefsel, is nie duidelik nie. Na toediening behoort die insekdodende werking aanhoudend nagegaan te word d.m.v. noukeurige verkenning om die behoefte aan verdere maatreëls te bepaal.

GEWAS / PLAAG	DOSIS	OPMERKINGS
Sitrus: Uitgesonderd kwekery- en jong uitgeplante boompies met groen stamweefsel en suurlemoene.		
Rooi dopluis <i>(Aonidiella aurantii)</i>	2 – 3 ml / m ² blaarkroonoppervlakte [hoogte (sonder skirt) x wydte (tussen die rye)]	Dien aan stamme toe teen mid-Okt tot mid-Des 150 dae voor oes. Laat kultivars word later behandel maar nie later as mid-Des nie. Gebruik die hoër dosis wanneer die rooi dopluisdruk hoog is en die laer dosis onder normale laevlak infestasies. Hou aan met verkenning ent ref verdere maatreëls indien nodig. Vroeë kruiperbeweging na jong vrugte, voor stamdtoediening moet dopgehou en beheer word om moontlike "pitting" te voorkom.
Witluis (Alle spesies)	2 ml / m ² kroonoppervlakte	Volg dieselfde program as teen rooi dopluis soos bo behalwe wanneer vroeër beheer nodig is.
Sitrus blaarmyner <i>(Phyllocnistis citrella)</i>	2 ml / m ² kroonoppervlakte	Die program teen rooi dopluis sal ook blaarmyner beheer en toedienings moet herhaal word teen laat infestasies in warmer gebiede.
Plantluis <i>(Aphis gossypii)</i> en <i>Toxoptera citrida</i>	2 ml / m ² kroonoppervlakte	Dien toe wanneer plantluis beheer moet word. 'n Rooidopluis program met MOSPILAN SL sal ook plantluis beheer.
Bladvlooie <i>(Trioza eryteae)</i>	2 ml / m ² kroonoppervlakte	Dien toe in gebiede waar nodig en herhaal soos verkenning aandui. Kom die onthoudingsperiode na.