

SIPERMETRIEN

Reg. Nr.: L4889 Wet Nr. 36 van 1947
 Namibië: N-AR 0797 • Botswana: W130287

'n Emulgeerbare konsentraat kontak- en maaginsekodder vir die beheer van verskillende insekte soos aanbeveel.

IRAC INSEKDODERGROEP KODE: 3

AKTIEWE BESTANDEEL:
 Sipermetrien (piretroïed).....200 g/l

REGISTRASIEHOUER:

Arysta LifeScience South Africa (PTY) LTD
 Mpy. Reg. Nr.: 2009/019713/07
 7 Sunbury Office Park , Douglas Saunders rylaan
 La Lucia, 4019 • Tel: (031) 514-5600

NOOD NR.: 082 446 8946

UN Nr.: 3351



SKADELIK

WAARSKUWINGS: Die volgende onthoudingsperiodes, minimum periode tussen laaste bespuiting en oes of beweiding moet toegelaat word.

Tamaties & Koolgewasse	4 dae
Boontjies, Grondbone (hooi) & Ertjies	7 dae
Appels, Pere & Perskes	14 dae
Luserne (beweiding), Mielies, Weiding, Suikermielies	14 dae
Sitrus, Wyn & Tafeldruiewe	28 dae
Katoen (beweiding) & Sorghum	28 dae
Makadamia neute	30 dae

- Hanteer konsentraat versigtig.
- Skadelik deur kontak, insluks van inaseming.
- Irriterend vir oë, asemhalingsstelsel en vel.
- Baie giftig vir vis.
- Onder veld toestande, is visse nie in gevaar met normale huis en tuin gebruik nie.
- Uiters giftig vir bye.
- Geen gevaar vir bye onder normale toedieningstoestand nie.
- VLAMBAAR** – moet nie naby oop vlamme berg nie.
- Berg agter slot en grendel, buite bereik van kinders, oningeligte persone en diere.
- Berg in 'n koel, droë plek weg van voedsel en voer.
- Die gebruik van hierdie middel anders as wat voorgeskryf is, mag plante beskadig, en oortollige residue of ander ongewenste resultate tot gevolg hê.
- In geval van vergiftiging, ontbied 'n geneesheer en toon hierdie etiket aan hom/haar.
- Herbetroding:** Moet nie behandelde gebied betree vir 1 dag na bespuiting nie, tensy beskermdende oorklere gedra word.

Alhoewel hierdie middel omvatte onder 'n groot verskeidenheid toestande getoets is waargborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaat- en bergingstoestand; kwaliteit van verdunningswater, onverenigbaarheid met ander stowwe wat 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 verantwoordelike vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effek op mens of diere of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.

VOORSORGMATREËLS:

- Moet nie spuitnevel en/of dampe inasem nie.
- Vermý kontak met vel en oë.
- Dra beskermende klerre, geskikte gesigmasker, gesigskerm, rubberhandskoene en rubberstewels wanneer produk hanteer en gemeng word en tydens toediening van spuitmengsel.
- Was met seep en water na gebruik en toevallige velkontak.
- Was besoedelde klerre na gebruik.
- Moet nie eet, drink of rook gedurende vermenging of bespuiting of voordat hande en gesig gewas is en skoon klerre aangetrek het nie.
- Vermý wegdryf van spuitnevel na ander gewasse, weiveld, riviere, damme en plekke wat nie behandel word nie.
- Maak toedieningsapparaat skoon na gebruik.
- Doen weg met uitspoelwater waar gewasse, weiveld, riviere, damme en boorgate nie besoedel word nie.
- Leë hours moet driekuer uitgespoel word soos volg: Keer die leë houer om oor die spuittekn of mengbak en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het.
- Spoel die houer daarna driekeur uit met 'n volume water gelykstaande aan 'n minimum van 10% van die inhoud van die houer.
- Gooi die spoelwater by die inhoud van die spuittekn voordat die houer op die voorgeskrewe wyse vernietig word.
- Vernietig die leë houer deur gate daarin te kap en plat te slaan en doen weg daarmee op 'n veilige manier.
- Moet **nooit** die leë houer vir enige ander doel hergebruik nie.
- Voorkom besoedeling van voedsel, voer, drinkwater en eettegerei.

SIMPOTME VAN MENSLIKE VERGIFTIGING: Indien produk ingesluk en na lange ingeasem is, kan chemiese inflammasie van die longe veroorsaak word.
 Kan branderigheid, jeuk of tintelende sensasie van die vel veroorsaak en gereedlik verdwyn binne 24 uur na blootstelling.
 Inaseming veroorsaak loopneus en krapperige keel.
 Simptome van hoë dosis innamie sluit in naarheid, aanhoudende braking, maagyn en diarree, wat toeneem na stuiptrekkings, bewusteloosheid en koma.

NOODHULPBEHANDELING: Verwyder die pasiënt van bron van vergiftiging en hou hom rustig en kalm.
Oogkontak: Spoel oë met skoon sagvloeiende water, vir ten minste 20 minute terwyl bo- en onder-ogelêde gereed opgelig word, totdat geen chemikalieë oorby. Indien irritasie voorkom en voortduur, ontbied mediese hulp.
Velkontak: Verwyder gekontamineerde klerre en spoel geaffekteerde liggaamsdele deeglik met oorvloedige seep en koue water af, totdat geen chemikalieë oorby. Moet nie vel hard vryf nie. Smeer olyfale aan geaffekteerde areas vir onmiddellike verligting. Ontbied mediese hulp indien irritasie voorkom en voortduur.
Ingeasem: Neem pasiënt na vars lug. Indien asemhalingsprobleme, of irritasie voorkom en voortduur, ontbied mediese hulp.

Ingestuk: Moet nie braking veroorsaak nie. Indien die pasiënt wakker is, spoel mond deeglik met water uit. Moet nie iets per mond gee nie. Ontbied 'n mediese hulp.
NOTA AAN GENEESHEER: Hierdie produk bevat 'n piretroïed en 'n aromatisiese oplosmiddel.
 Indien die produk na lange ingeasem word tydens innamie of braking, kan ligte tot ernstige chemiese inflammasie van die longe veroorsaak word. Die maak behoort leeggemaak te word, so spoedig moontlik deur versigtige maagspoeling.
 'n Teemiddel is nie beskikbaar nie. Behandel simptome en ondersteunend. In geval van innamie, oorweeg maagspoeling met water of 5% natrium bikarbonaat oplossing. Stuiptrekkings kan met anti-stuiptomiddel behandel word.

WEERSTANDSWAARSKUWING: SIPERMETRIEN is 'n groepkode 3 insekdoder. Enige populasie van 'n spesifieke insek mag individue insluit wat 'n natuurlike weerstand teen **SIPERMETRIEN** of enige ander groepkode 3 insekdoder het. Indien hierdie insekdoder herhaaldelik aangewend word, kan die weerstand biedende individue uiteindelik die insek populasie oorheers. Hierdie weerstand biedende insekte sal waarskynlik nie deur **SIPERMETRIEN** of enige ander groepkode 3 insekdoder beheer word nie.

Om weerstand teen insekdoders te verhoog:
 • Vermý die eksklusiewe herhaaldelike gebruik van insekdoders met dieselfde groepkode. Wissel af met, of gebruik tenklangsels van produkte in verskillende insekdodergroep kodes.
 • Integreer ander beheermaatreëls (chemies, verbouing, biologies) in insekbeheer programme.
 Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

Waarskuwing teen bestandheid: Weerstand van Amerikaanse bolwurm (*Helicoverpa armigera*) teen sintetiese piretroïedes is bevestig.
Katoen: Sintetiese piretroïedes moet slegs gedurende die periode 1 Januarie tot 28 Februarie op katoen toegedien word.

Alle ander Gewasse: Moet nie meer as twee toedienings per greiseisoen toedien nie.
 As 'n piretroïedbespuiting swak beheer gee **moet nie** met enige sintetiese piretroïed, selfs teen 'n korrektiewe dosis, herspuit nie. Gebruik 'n produk uit 'n ander chemiegroep.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui.
Verenigbaarheid: • **SIPERMETRIEN** is verenigbaar met 'n wye verskeidenheid plaagbeheermiddels. Aangesien Tsunami Plant Protection nie alle moontlike kombinasies kan toets nie, dra die verbruiker die verantwoordelike om 'n mengbaarheidstets uit te oefen indien daar enige twyfel bestaan. • Moet nie **SIPERMETRIEN** met seewierekstrak, vamidoton, protiofos, chinometaat of amitras meng nie. • Moet nie 'n benattingsmiddel by **SIPERMETRIEN** byvoeg nie wanneer appels, druiwe of pere gespuit word nie. • Die doeltreffendheid van **SIPERMETRIEN** mag deur 'n hoë pH waarde van die spuitmengsel verlaag word. **SIPERMETRIEN** is meer stabiel by 'n pH van ongeveer 4. Indien 'n versuringsmiddel gebruik word om die pH te verlaag, moet dit eerste met die water gemeng word, voordat **SIPERMETRIEN** bygevoeg word. • Byvoeging van melasse versuur en verminder ook verdamping van die spuitmis. • Vir grondtoediening behoort 10% melasse per volume bygevoeg te word en by lugbespuiting 20%.

Menginstruksies: • Maak die spuittekn halfvol met skoon water. • Verseker pH van water is ongeveer 4. Voeg 'n geskikte buffer agent by om die pH reg te stel, indien nodig. • Meet die benodigde hoeveelheid **SIPERMETRIEN** af en meng dit eers in minstens 10 liter reeds korrekte pH water (pH 4). Indien enige ander produk bygevoeg word as 'n tenkmengsel, moet die benodigde hoeveelheid van daardie produk eers op soortgelyke wyse vooraf gemeng word. • Roer die water in die spuittekn en voeg die voorafgemengde produk(te) by. • Vul die spuittekn met die regte hoeveelheid water, terwyl roering gehandhaaf word sodat deeglike vermening verseker word. • Roer tydens toediening. • Gebruik die voorbereide spuitmengsel dadelik. • Moet nie oornag laat staan nie.

Grondtoediening: • Wanneer konvensionele hoë volume spuitapparaat en newelblasers gebruik word, gebruik hoëdoppluisstewels wat 'n medium tot fyn druipelgrootte lever. • Die spuit moet akkuraat gekalibreer word en tydens toediening moet goeie bedekking verseker word. • Eenvormige verspreiding moet verseker word.

GEBRUIKSBEPERKINGS: • Indien grond droog is, moet nie toedien vir snywurm beheer nie. • Inspekteer die lande indien dit kort na bespuiting gereden het. Indien nodig, herhaal die bespuiting.

TOEDIENINGSHOEVELHEDE: Die volgende dosisse is aanbeveel vir voorkomende spuitprogramme. Verwys na "Weerstandswaarskuwing" hierbo.

GEWAS/PLOAG:	DOSIS:	OPMERKINGS:
KATOEN Amerikaanse bolwurm, Rooi bolwurm, Stekelbolwurm, Viekbesies & Vals-(plusia) landmeter	Weeklikke spuitprogram: 7,5 ml/10 ℓ water	Verseker goeie bedekking en penetrasie. Grondtoediening: Dien 2 liter spuitmengsel per 100 m ² toe.
NOTA: • Dien SIPERMETRIEN vanaf week 12 toe wanneer die volgende eier en larwe besmettings bereik word: Ameriaanse bolwurm: 2 larwes of 12 eiers per 24 plante. Rooi bolwurm: 2 larwes of 6 eiers per 24 plante. Stekel bolwurm: 2 larwes. • 'n Vaste program, met of 'n 7 of 14 dae interval, kan gevolg word. • Die helfte van die bogenoemde hoeveelhede kan gebruik word op katoen 600 mm en kleiner b.v. 1 liter spuitmengsel per 100 m ² in die geval van grondtoediening. • In die geval van 'n hoë besmetting, by meer as 2 bolwurmlarwes per 24 plante, is dit raadsaam om die toedieningshoeveelheid te verhoog. Korrektiewe Behandeling: Grondtoediening: 5 ml/ha. Dien toe in 2 liter water. Sodra die besmettingsvlak na normaal daal keer terug na die gewonde spuitprogram.		
APPELS & PERE Kodlingmot & Blaarroller	0,5 ml/10 ℓ water	Eerste toediening 75% blomblaarval en herhaal met 14 dae tussenposes.
Amerikaanse bolwurm	0,5 ml/10 ℓ water	Dien as 'n korrektiewe behandeling toe maar nie vroeër as 75% blomblaarval. Hoë volume toediening: Dien 1,25 tot 1,75 ml SIPERMETRIEN per 100 m ² . Lae volumebehandeling: Dien 1 tot 1,4 ml SIPERMETRIEN per 100 m ² . Versigtig: Giftig vir bye.

GEWAS/PLOAG:	DOSIS:	OPMERKINGS:
APPELS & PERE (vervolg) Gebande vrugtekalander (Snuikewer)	Hoë volume toediening: 1 ml/10 ℓ water (250 – 350 ml/100 m ²) Lae volume toediening: (2,0 – 2,8 ml/100 m ²)	Dien twee bespuitings toe, die eerste tydens 75% blomblaarval en herhaal 4 weke later. 'n Verdere hoë of lae volume behandeling kan middel Januarie toegedien word om laeisoen skade te voorkom. Verwys na bogenoemde aanpasbaarheid.
BOONTJIES Amerikaanse bolwurm	1,5 ml/100 m ²	Dien toe sodra eiers of larwes opgemerk word. Grondtoediening: Dien toe in 3 liter water. Verken lande en indien nodig herhaal bespuiting.
KOOLGEWASSE Amerikaanse bolwurm, Ruitrugmot larwes & Blaaspootjies	1 ml/10 ℓ water	Spuit met eerste tekens van besmetting en verseker goeie benatting. Herhaal 10 tot 14 dae later.
ALLE GEWASSE Snywurm	1,0 ml/ 100 m ²	Dien toe as voor- of na-plantopkoms bespuiting sodra plaag opgemerk word. Die boonste 3 cm moet nat wees. Indien 'n herbesmetting voorkom, herhaal behandeling. Grondtoediening: 1. Algemene behandeling: Dien toe in 3 liter water. 2. Rybehandeling (300 mm breë band): Gebruik in ten minste 3 liter water per 100 meter plantry.
ERTJIES Amerikaanse bolwurm & Klein kommandowurm	1,5 ml/100 m ²	Grondtoediening: Dien toe in 3 tot 5 liter water. Herhaal indien nodig met 14 dae intervale.
GRONDBOONTJIES Amerikaanse bolwurm	1,5 ml/100 m ²	Grondtoediening: Dien toe in 2,5 liter water.
LUSERN Lusernruspe	0,75 ml/100 m ²	Dien toe as 'n volle dekbespuiting in 3 liter water sodra die plaag opgemerk word. Goeie benatting en dekking is noodsaaklik.
MAKADAMIA NEUTE Stinkbesie	2,0 ml/10 ℓ water	Behandel wanneer neute albastergrootte bereik. Herhaal na 4 weke. Indien nodig mag 'n verdere bespuiting 4 weke later volg, maar nie later as 90 dae voor oes nie.
MIELIES & SUIKERMIELIES Amerikaanse bolwurm	1,5 ml/100 m plantry	Grond toediening: Moet nie minder as in 3 liter water per 100 meter plantry gebruik nie. Verseker goeie bedekking van die melleklop.
Stronkboorder	3,5 ml/100 m plantry	Dien toe 7 tot 10 dae na 5% of meer plante met eiers besmet is. Larwes wat klaar binne die stam is, of groter as 10 mm is, sal nie beheer word nie. Indien besmetting oor 'n lang tydperk geskied, kan meer as een bespuiting nodig wees. Grondtoediening: Dien toe in 3 liter water per 100 meter plantry. Verseker dat die plant beide binne in die kelk sowel as aan die buitekant goed bedek is. Gebruik ten minste twee D4/35 of D5/35 spuitpunte oor 'n ry.
PERSKES Amerikaanse bolwurm	Hoë volume: 0,5 ml/10 ℓ water (1,25 – 1,75 ml/100 m ²)	Dien toe by 75% blomblaarval. Verseker volle bedekking.
Kodlingmot	Hoë volume: 0,5 ml/10 ℓ water (1,25 – 1,75 ml/100 m ²)	Verseker volle bedekking met behandeling by 75% blomblaarval. Herhaal met 14 tot 21 dae tussenposes.
Valskodlingmot	Hoë volume: 0,5 ml/10 ℓ water (1,25 – 1,75 ml/100 m ²)	Vroeë kultivars: Dien toe as 'n volle dekbespuiting 6 weke voor oes en herhaal met 14 dae tussenposes. Laat kultivars: Dien toe as 'n volle dekbespuiting 8 weke voor oes en herhaal met 14 dae tussenposes. In die somerreeval gebied moet die eerste behandeling nie later as die 3de week in Desember geskied nie. Inlé perskes: Soos bo, behalwe dat laaste toediening 3 dae voor oes kan geskied.

GEWAS/PLOAG:	DOSIS:	OPMERKINGS:
PERSKES (vervolg) Vrugte vlieë	Hoë volume: 1 ml/10 ℓ water (2,50 – 3,50 ml/100 m ²)	Alle kultivars: Dien 'n volle dekbespuiting 8 weke voor oes toe en herhaal met 14 dae tussenposes. Inlé perskes: Soos bo, behalwe dat laaste toediening 3 dae voor oes kan geskied.
Snuikewers	Hoë volume: 1 ml/10 ℓ water (2,50 – 3,50 ml/100 m ²)	Dien toe sodra skade opgemerk word en herhaal indien nodig na 4 weke.
SORGHUM Amerikaanse bolwurm	1,5 ml/100 m plantry	Grondtoediening: Rig toediening op are. Moet nie minder as in 3 liter water per 100 meter plantry toedien nie.
Stronkboorder	3,5 ml/100 m plantry	Grondtoediening: Soos vir mielies.
TAMATIES Amerikaanse bolwurm	1,5 ml/10 ℓ water 0,75 – 1,5 ml/100 m ²	Grondtoediening: Dien 'n volle dekbespuiting toe met eerste tekens van 'n besmetting. Herhaal met 7 tot 10 dae tussenposes soos nodig gevind word met plantinspeksie. Hoë volume: Dien tot 5 liter spuitmengsel per 100 m ² toe op plante tot 600 mm groot en tot 10 liter spuitmengsel per 100 m ² op plante groter as 600 mm, b.v. opgeleide tamaties. Moet nie meer as 1,5 ml SIPERMETRIEN per 100 m ² gebruik nie. Newelblaser: Dien toe in 1,5 liter water per 100 m ² op plante minder as 600 mm hoog. Dien toe in 5 liter water per 100 m ² op plante groter as 600 mm. Moet nie meer as 1,5 ml SIPERMETRIEN per 100 m ² gebruik nie.
WYN EN TAFELDRIEWE Kalanders (Snuikewers)	1 ml/10 ℓ water	Behandel sodra skade opgemerk word. Herhaal 3 tot 4 weke later indien nodig. Kalanders kom gewoonlik tussen middel Oktober tot middel November voor. Sorg dat al die plantelêre deeglik benat word.
WEIDING Kommandowurm	1,5 ml/100 m ²	Grondtoediening: Dien toe in 3 liter water.
SITRUS Blaaspootjies	1,5 – 2 ml/10 ℓ water	Nie vir gebruik in boorde waar rooidopluis onder biologiese beheer is nie. (a) Herinfestasie 4 tot 9 weke na blomblaarval na goeie bedekking van die melleklop. ander geregistreerde behandeling
OF (b) Herinfestasie middel November tot 20 Desember na gebruik van enige ander geregistreerde behandeling	0,5 – 0,7 ml/10 ℓ water	Gebruik progressief laer dosisse hoe later herinfestasie voorkom gedurende die aangeduide periode. Dien as 'n ligte dekbespuiting toe. Benat blaardak tot die punt van afloop. Gebruik progressief laer dosisse hoe later herinfestasie voorkom gedurende die aangeduide periode. Dien as 'n ligte dekbespuiting toe. Benat blaardak tot die punt van afloop. Nota: Sien gebruiksbeperkings by sitrus onderaan tabel.
GEBRUIKSBEPERKINGE BY SITRUS:		• Beperk toediening tot 'n enkele bespuiting per seisoen en verkieslik in die periode 4 tot 9 weke na blomblaarval. • Beperk gebruik tot boorde waar rooidopluis (<i>Aonidella aurantii</i> Mask) onder kommersiële chemiese beheer is. Die gebruik van hierdie produk vir blaaspootjiebeheer mag die opbou van rooidopluis tot gevolg hê. • Waar daar enige voorneme is om SIPERMETRIEN te gebruik indien blaaspootjie besmetting voorkom gedurende die aangeduide periodes, dien 'n geregistreerde voorkomende behandeling vir rooidopluisbeheer vroeg in die lente en 'n tweede behandeling 7 tot 11 weke na blomblaarval toe. • Moet nie op bome gebruik met 'n geskiedenis van Teranychid myt infestasie nie.

SIPERMETRIEN

Reg. No.: L4889 Wet Nr. 36 van 1947
Namibië: N-AR 0797 • Botswana: W130287

An emulsifiable concentrate contact and stomach insecticide for the control of various insects as recommended.

IRAC INSECTICIDE GROUP CODE: 3

ACTIVE INGREDIENT:

Cypermethrin (pyrethroid).....200 g/l

DISTRIBUTOR:

PROTEK, a division of PE-BEE Agri (PTY) LTD
Co. Reg. No.: 2005/036308/07
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REGISTRATION HOLDER:

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EMERGENCY NO.: 082 446 8946

UN No.: 3351



HARMFUL



WARNINGS: The following withholding periods, minimum time between last application and harvest or grazing, are required:

Tomatoes & Cruciferae	4 days
Beans, Groundnuts (hay) & Peas	7 days
Apples, Pears & Peaches	14 days
Lucerne (grazing), Maize, Pastures, Sweetcorn	14 days
Citrus, Wine & Table Grapes	28 days
Cotton (grazing) & Sorghum	28 days
Macadamia nuts	30 days

• Handle concentrate with care. • Harmful by contact, swallowing or inhalation. • Irritating to eyes, respiratory system and skin. • Very toxic to fish. Under field conditions, fish are not at risk from normal agriculture usage. • Highly toxic to bees. No hazard to bees under normal application conditions. • **FLAMMABLE** – do not store near open flame. • Keep under lock and key, out of reach of children, uninformed persons and animals. • Store in a cool, dry place and away from food and feedstuffs. • Use of this material in a manner or at a time other than in accordance with directions, may cause phytotoxicity, and excessive residues or other undesirable results. • **In case of poisoning call a doctor and make the label available to him/her.** • **Re-entry:** 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 soil, climatic and storage conditions; quality of dilution water, incompatibility 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:

• Do not inhale fumes and/or spray mist. • Avoid skin and eye contact. • Wear protective clothing, suitable face mask, face shield, rubber gloves and rubber boots when handling and mixing the product and whilst applying the spray mixture. • Wash with soap and water after use and accidental skin contact. • Wash contaminated clothing after use. • Do not eat, drink or smoke while mixing or applying the product or before washing hands and face and changing clothing. • Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment. • Clean application equipment after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes. • 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 described manner. • Destroy the empty container by perforation and flattening and dispose of it in a safe manner. • **Never** re-use the empty container for any other purpose. • Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING: If product is aspirated into the lungs during ingestion or vomiting, mild to severe chemical pneumonia may be caused. May cause burning, itching or tingling sensations of the skin and readily disappear within 24 hours after exposure. Inhalation causes nasal discharge and a scratchy throat. Symptoms of high-dose ingestion include nausea, prolonged vomiting, stomach pains and diarrhoea, which progresses to convulsions, unconsciousness and coma.

FIRST AID TREATMENT: Remove patient from source of poisoning and keep him quiet and reassured.

Eyes: Flush eyes with clean gentle flowing water for at least 20 minutes, occasionally lifting upper and lower lids, until no evidence of chemicals remains. If irritation occurs and persists, obtain medical attention.

Skin: Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and cold water, until no evidence of chemical remains. Do not rub skin. Apply olive oil to affected areas for prompt relief. Get medical attention if irritation occurs and persists.

Inhalation: Move the patient to fresh air. If breathing difficulty or irritation occurs and persists, obtain medical attention.

Ingestion: Do not induce vomiting. If the patient is alert, have the mouth thoroughly rinsed with water. Do not give anything by mouth. Get a medical attention.

NOTE TO PHYSICIAN: This product contains a pyrethroid and an aromatic solvent. If product is aspirated into the lungs during ingestion or vomiting, mild to severe chemical pneumonia may be caused. The stomach should be emptied as soon as possible by careful gastric lavage. Antidote is not available. Treat symptomatically and supportively. In case of ingestion, consider gastric lavage with water or 5% sodium bicarbonate solution. Convulsions should be treated with anti-convulsants.

RESISTANCE WARNING: For resistance management, **SIPERMETRIEN** is a group code 3 insecticide. Any insect population may contain individuals naturally resistant to **SIPERMETRIEN** and other group code 3 insecticide. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **SIPERMETRIEN** or any other group code 3 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 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.

Warning against resistance: Resistance of American bollworm (*Helicoverpa armigera*) to synthetic pyrethroids has been confirmed.

Cotton: Synthetic pyrethroids must only be applied to cotton during the period 1 January to 28 February. **All other Crops: Do not** respray more than two applications per growing season. If a pyrethroid gives poor performance, **do not** respray with any synthetic pyrethroid, even at a corrective dosage rate. Use a product from a different chemical group.

DIRECTIONS FOR USE: Use only as directed.

Compatibility: • **SIPERMETRIEN** is compatible with a wide range of pesticides. However, since it is not possible for Tsunami Plant Protection to test all possible combinations, the onus lies with the user to carry out a compatibility test in the event of any uncertainty. • Do not mix **SIPERMETRIEN** with seaweed extract or vanidothion, prothiophos, chinomethionate and amitraz. • When spraying apples, pears and grapes a wetting agent should not be added to **SIPERMETRIEN**. • The efficacy of **SIPERMETRIEN** can be harmed at high pH value of the spray mixture. It is more stable at a pH of around 4. Where an acidifying agent is used to lower the pH of the water, the agent must be added to the water before the **SIPERMETRIEN**. • The addition of molasses has acidifying effect and reduces evaporation of the spray mist. • For ground application add 10% molasses by volume and 20 % for aerial application.

Mixing Instructions: • Half fill the spray tank with clean water. • Ensure pH of water is around 4. Add a suitable buffering agent to correct pH of water if necessary. • Measure out the required quantity of **SIPERMETRIEN** and premix this with at least 10 litres of already pH corrected water (pH 4). If any other product is to be added to the tank mixture, the required volume of that product must be premixed in similar fashion. • Agitate the water in the spray tank and add the premixed product(s) to the tank. • Fill the spray tank with water to the required volume, while maintaining agitation to ensure thorough mixing. • Maintain agitation during spraying. • Use the prepared mixture immediately. • Do not allow to stand overnight.

Ground Application: • When using a conventional high volume sprayer or a mistblower, fit equipment with hollow cone nozzles that give medium to fine droplets. • Ensure that sprayers are calibrated before spraying and that thorough coverage is obtained. • A uniform distribution must be ensured.

USE RESTRICTIONS: • If soil is dry do not apply for cutworm control. • Inspect lands if it rains shortly after spraying. If necessary repeat spraying.

APPLICATION RATES: The following rates are recommended for preventive spray programme. Refer to "Resistance Warning" above.

CROP/PEST	DOSAGE RATE	REMARKS
COTTON American bollworm, Red bollworm, Spiny bollworm, Stainers & Semi-(plusia) looper	Weekly spray program: 7,5 ml/10 l water	Ensure overall coverage and good penetration. Ground application: Apply 2 litres mixture per 100 m ² .
NOTE: • Apply SIPERMETRIEN from week 12 when the following larvae and/or egg infestation levels are reached: American bollworm: 2 larvae or 12 eggs on 24 plants. Red bollworm: 2 larvae or 6 eggs on 24 plants. Spiny bollworm: 2 larvae. • A set program, at either 7 or 14 day intervals may be followed. • Half the rate recommended above may be applied to cotton 600 mm and smaller i.e. 1 litres spray mixture per 100 m ² in the case of ground application. • In the event of a severe infestation, i.e. more than 2 bollworm larvae per 24 plants, it is advisable to increase the dosage rate to the following: Corrective treatment: Ground application: 5 ml/ha. Apply in 2 litres water. Return to the normal spray programme once the infestation levels drop to normal.		
APPLES & PEARS Codling moth & Leaf roller	0,5 ml/10 l water	Apply first spray at 75 % petal drop and repeat at 14 day intervals.
American bollworm	0,5 ml/10 l water	Apply as a corrective treatment not earlier than 75 % petal drop. High volume application: Apply 1,25 to 1,75 ml SIPERMETRIEN per 100 m ² . Low volume application: Apply 1 to 1,4 ml SIPERMETRIEN per 100 m ² . Caution: Toxic to bees. Refer to compatibility above.

CROP/PEST	DOSAGE RATE	REMARKS
APPLES & PEARS (cont) Banded fruit weevil (Snoutbeetle)	High volume application: 1 ml/10 l water (2,5 – 3,5 ml/100 m ²) Low volume application: (2,0 – 2,8 ml/100 m ²)	Apply two sprays, the first at 75 % petal drop. Repeat 4 weeks later. Further, either a low or high volume spray can be applied during mid-January to prevent late season damage. Refer to compatibility above.
BEANS American bollworm	1,5 ml/100 m ²	Apply as soon as eggs or larvae are noticed. Ground application: Apply in 3 litres water. Inspect lands regularly and if necessary repeat application.
CRUCIFERAE American bollworm, Diamond back moth larvae & Thrips	1 ml/10 l water	Ensure good wetting of the plant. At first signs of pest commence spraying. Repeat 10 to 14 days later.
ALL CROPS Cut worms	1,0 ml/ 100 m ² 0,33 ml/100 m plant row	Apply treatment either pre or post emergence. Ensure that top 3 cm of soil is moist. Repeat treatment in cases of re-infestation. Ground application: 1. Overall spray: Apply in 3 litres water. 2. Band spray (300 metre wide): Apply in at least 3 litres water per 100 metre plant row.
PEAS American bollworm & Lesser army worm	1,50 ml/100 m ²	Ground application: Apply in 3 to 5 liter water. If necessary repeat at 14 day intervals.
GROUNDNUTS American bollworm	1,5 ml/100 m ²	Ground application: Apply in 2,5 litres water.
LUCERNE Lucerne caterpillar	0,75 ml/100 m ²	Apply as full cover spray in 3 litres water as soon as pest is noticed. Good wetting and coverage is necessary.
MAKADAMIA NUTS Stink bug	2,0 ml/10 l water	Commence spraying when nuts are marble size. Repeat after 4 weeks. If necessary another spray 4 weeks later can be applied, but not later than 90 days before harvest.
MAIZE & SWEETCORN American bollworm	1,5 ml/100 m plant row	Ground application: Use in not less than 3 litres water per 100 metre plant row. Ensure that nozzles are directed towards the cob.
Stalkborer	3,5 ml/100 m plant row	Apply 7 to 10 days after 5 % or more plants are infested with eggs. Larvae in the stalk or bigger than 10 mm will not be controlled. Second spray could be necessary if infestation period is over a long period. Ground application: Do not apply in less than 3 litres water per 100 metres plant row. To ensure good coverage inside the funnel as well as on the sides of the plant, use at least two D4/35 or D5/35 nozzles per row.
PEACHES American bollworm	High volume: 0,5 ml/10 l water (1,25 – 1,75 ml/100 m ²)	Apply as full cover spray at 75 % petal drop. Ensure good coverage.
Codling moth	High volume: 0,5 ml/10 l water (1,25 – 1,75 ml/100 m ²)	Full cover spray at 75 % petal drop. Repeat at 14 to 21 day intervals.
False Codling Moth	High volume: 0,5 ml/10 l water (1,25 – 1,75 ml/100 m ²)	Early cultivars: A full cover spray should be applied 6 weeks before harvest and repeated at 14 day intervals. Late cultivars: A full cover spray should be applied 8 weeks before harvest and repeated at 14 day intervals. In the summer rainfall regions first application must not be later than the third week in December. Canning peaches: As above, but last application can be made 3 days before harvest.

CROP/PEST	DOSAGE RATE	REMARKS
PEACHES (cont) Fruit Flies	High volume: 1 ml/10 l water (2,50 – 3,50 ml/100 m ²)	All cultivars: A full cover spray should be applied 8 weeks before harvest and repeated at 14 day intervals. Canning peaches: As above, but last application can be made 3 days before harvest.
Banded fruit weevil (Snoutbeetle)	High volume: 1 ml/10 l water (2,50 – 3,50 ml/100 m ²)	Apply as soon as damage is noticed. Repeat after 4 weeks if necessary.
SORGHUM American bollworm	1,5 ml/100 m plant row	Ground application: Direct application onto ears. Do not apply in less than 3 litres water per 100 metres plant row.
Stalkborer	3,5 ml/100 m plant row	Ground application: As for maize.
TOMATOES American bollworm	1,5 ml/10 l water 0,75 – 1,5 ml/100 m ²	Ground application: At first signs of infestation, apply as full cover spray. Repeat at 7 to 10 day intervals or as necessitated by crop inspection. High volume: Apply up to 5 litres spray mixture per 100 m ² to plants up to 600 mm high and up to 10 litres spray mixture per 100 m ² to plants higher than 600 mm, e.g. trellised tomatoes. Do not use more than 1,5 ml SIPERMETRIEN per 100 m ² . Mist Blowers: Apply in 1,5 litres water per 100 m ² for plants less than 600 mm high. Apply in 5 litres water per 100 m ² for plants higher than 600 mm. Do not use more than 1,5 ml SIPERMETRIEN per 100 m ² .
WINE AND TABLE GRAPES Weevils (Snoutbeetles)	1 ml/10 l water	Apply as soon as damage occurs. Repeat 3 to 4 weeks later if necessary. The occurrence of weevils can be expected from mid-October to mid-November. Ensure coverage of all parts of the plant.
PASTURES Army worm	1,5 ml/100 m ²	Ground application: Apply in 3 litres water.
CITRUS Thrips		Not to be used in orchards where red scale is under biological control.
(a) Reinfestation 4 to 9 weeks after petal fall following use of any other registered treatment	1,5 – 2 ml/10 l water	Use progressively lower dosage the later the reinfestation occurs during the designated time period. Apply as a light cover spray to wet foliage canopy to the point of run-off.
OR (b) Reinfestation mid November to 20 December following use of any other registered treatment.	0,5 – 0,7 ml/10 l water	Use progressively lower dosage the later the reinfestation occurs during the designated time period. Apply as a light cover spray to wet foliage canopy to the point of run-off. Note: See use restrictions for citrus at the end of the label.
USE RESTRICTIONS FOR CITRUS: • Restrict usage to a single application per season and preferable to the period 4 to 9 weeks after petal drop. • Restrict usage to orchards in which the red scale (<i>Aonidiella aurantii</i> Mask) is under commercial chemical control. The use of this product may lead to the build-up of red scale. • Where there is any intention to use SIPERMETRIEN if thrips reinfestation occurs during the designated time periods, apply a registered preventive treatment for red scale control in the early spring and a second treatment 7 to 11 weeks after petal fall. • Do not use on trees with a history of Tetranychid mite infestations.		