

140mm deep

# POISON

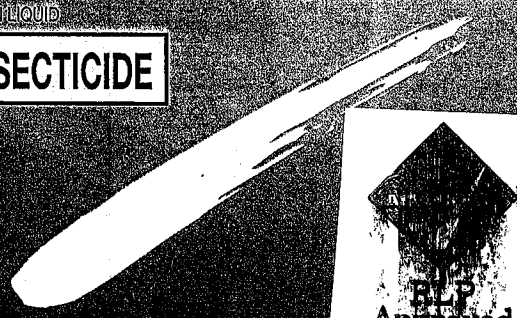
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



**100 EC INSECTICIDE/MITICIDE**

ACTIVE CONSTITUENT: 100g/L BIFENTHRIN  
SOLVENT: 763g/L HYDROCARBON LIQUID

**GROUP 3A INSECTICIDE**



Controls insect pests and mites of apricots, bananas, barley, canola, citrus, clover, cotton, cucurbits, faba beans, field peas, grapes, lucerne, lucerne seed crops, lupins, navy beans, nasturtiums, peaches, pears, pottos, potatoes, subtropical clover, sugarcane, tomatoes and wheat as specified in the Directions for Use table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

## CONTENTS:

1L, 5L, 20L, 50L, 110L, 200L, 1000L

FMC

FMC Crop Protection Pty Ltd  
5 Palmer Place  
Murarrie QLD 4172  
Phone 1800 901 939

263mm wide

PRO-STAR MULTIFOLD

### STORAGE & DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure rinse empty containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

### SAFETY DIRECTIONS

Poisonous if swallowed. Will damage eyes. Will irritate nose, throat and skin. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. When using the prepared spray with hand held application equipment in bananas, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, do NOT induce vomiting. Give a glass of water.

### MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet which can be obtained from the supplier.

### WARRANTY

FMC makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage are contrary to label instructions.

<p>In a Transport Emergency Dial 000 Police or Fire Brigade</p>	<p>SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 498 ALL HOURS - AUSTRALIA WIDE</p>
-----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------

APVMA Approval No: 45704 / 58587

# POISON

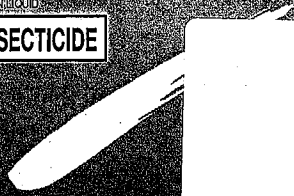
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



100 EC INSECTICIDE/MITICIDE

ACTIVE CONSTITUENT: 0.001% BIFENTHRIN  
SOLVENTS: 99.9% HYDROCARBON LIQUIDS

GROUP 3A INSECTICIDE



Controls mealybugs and mites of broadleaves, bananas, berries, tobacco, citrus, clover,  
cotton, cereals, fabaceae, field peas, grapes, lucerne, lucerne seed crops, lupine,  
paw/paw, peas, potatoes, peaches, pears, citrus, grapes, watermelon, sugar  
sweety, melons and other as specified in the directions for use table.

IMPORTANT: READ THE ATTACHED LABEL BEFORE USE

## CONTENTS:

FMC Crop Protection Pty Ltd  
5 Palmer Place  
Murarrie QLD 4172  
Phone 1800 901 939

420mm wide

### STORAGE & DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.  
Triple or preferably pressure rinse empty containers before disposal. Add rinsings to spray tank. Do not dispose of  
undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection  
point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is  
available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of  
waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

### SAFETY DIRECTIONS

Poisonous if swallowed. Will damage eyes. Will irritate nose, throat and skin. Avoid contact with eyes and skin. Do not  
inhale spray mist. When preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat,  
elbow-length PVC gloves and goggles. When using the prepared spray with hand held application equipment in  
bananas, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves. If  
product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles  
and contaminated clothing.

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, do NOT  
induce vomiting. Give a glass of water.

### MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet which can be obtained from the supplier.

### WARRANTY

FMC makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label.  
Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage  
of this material when such use and/or handling and/or storage are contrary to label instructions.

In a Transport  
Emergency Dial  
000  
Police or Fire Brigade

SPECIALIST ADVICE  
IN EMERGENCY ONLY  
1800 033 498  
ALL HOURS - AUSTRALIA WIDE

JA

DO NOT FOLD

140mm deep

# POISON

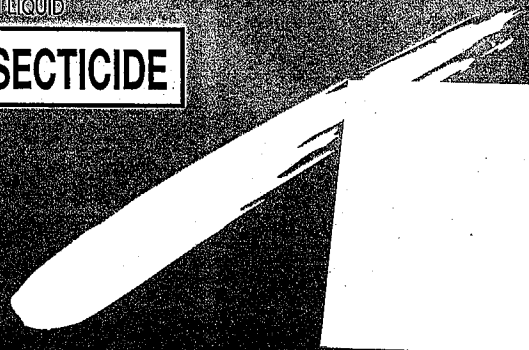
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# TALSTAR®

100 EC INSECTICIDE/MITICIDE

ACTIVE CONSTITUENT 100g/L BIFENTHRIN  
SOLVENT 763g/L HYDROCARBON LIQUID

GROUP **3A** INSECTICIDE



Controls insect pests and mites of apricots, bananas, barley, canola, citrus, clover,  
cotton, cucurbits, faba beans, field peas, grapes, lucerne, lucerne seed crops, lupins,  
navy beans, radishes, peaches, pears, plums, poppies, subterranean clover,  
sugarcane, tomatoes and wheat as specified in the Directions for Use table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

**CONTENTS: 110 LITRES**

215mm deep

#### STORAGE & DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs FMC Australasia Pty Ltd should be advised immediately.

This container is reusable and remains the property of FMC Australasia Pty Ltd. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to FMC Australasia Pty Ltd for cleaning, relabelling and refilling.

#### SAFETY DIRECTIONS

Poisonous if swallowed. Will irritate eyes. Will irritate nose, throat and skin. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. When using the prepared spray with hand held application equipment in bananas, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, do NOT induce vomiting. Give a glass of water.

#### MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet which can be obtained from the supplier.

#### WARRANTY

FMC makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage are contrary to label instructions.

In a Transport  
Emergency Dial  
000  
Police or Fire Brigade

**SPECIALIST ADVICE  
IN EMERGENCY ONLY  
1800 033 498  
ALL HOURS - AUSTRALIA WIDE**

FMC Crop Protection Pty Ltd  
5 Palmer Place  
Murarrie QLD 4172  
Phone 1800 901 939  
Philadelphia, USA.

FMC MULTIFOLD

310mm wide

# POISON

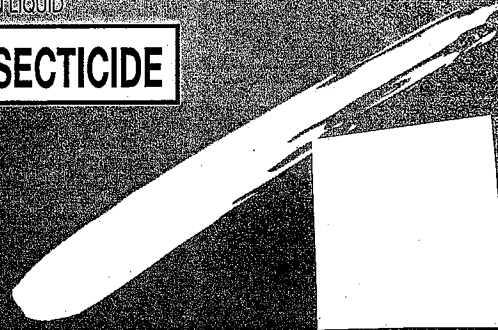
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# TALSTAR®

100 EC INSECTICIDE/MITICIDE

ACTIVE CONSTITUENT: 100g/L BIFENTHRIN  
SOLVENT: 763g/L HYDROCARBON LIQUID

GROUP **3A** INSECTICIDE



Controls insect pests and mites of apricots, bananas, barley, canola, citrus, clover, cotton, cucurbits, fava beans, field peas, grapes, lucerne, lucerne seed crops, lupins, navy beans, nectarines, peaches, pears, plums, poppies, subterranean clover, sugarcane, tomatoes and wheat as specified in the Directions for Use table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

**CONTENTS: 200 LITRES**

FMC Crop Protection Pty Ltd  
5 Palmer Place  
Murarie QLD 4172  
Phone 1800 901 939

#### STORAGE & DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure rinse empty containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

#### SAFETY DIRECTIONS

Poisonous if swallowed. Will irritate eyes, nose, throat and skin. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. When using the prepared spray with hand held application equipment in bananas, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, do NOT induce vomiting. Give a glass of water.

#### MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet which can be obtained from the supplier.

#### WARRANTY

FMC makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage are contrary to label instructions.

In a Transport  
Emergency Dial  
000  
Police or Fire Brigade

SPECIALIST ADVICE  
IN EMERGENCY ONLY  
1800 033 498  
24 HOURS - AUSTRALIA WIDE

215mm deep

END OF MULTIFOLD

310mm wide

**DIRECTIONS FOR USE  
RESTRAINTS**

DO NOT use as a foliar spray in banana plantations and orchards where mite predators or other beneficials are established and providing effective mite control and/or other pest control.

DO NOT apply as a foliar treatment if rainfall is expected before spray deposits dry on leaf surfaces.

DO NOT apply to bananas by aircraft.

DO NOT use on cucurbit crops grown in covered or protected situations such as glasshouses, greenhouses or plastic tunnels.

CROP	PEST	STATE	RATE
Bananas	Banana weevil borer <i>(Cosmopolites sordidus)</i>	Qld, NT, NSW & WA only	<u>Seasonal Program</u> <u>Stool Treatment Method</u> 250-330mL/100L twice per year OR 660mL/100L once per year <u>Band Treatment Method</u> 250mL/100L twice per year <u>Monitoring Program</u> <u>Stool Treatment Method</u> 330mL/100L <u>Band Treatment Method</u> 250mL/100L
	Banana rust thrips <i>(Chaetanaphothrips signipennis)</i>		

WHP	CRITICAL COMMENTS
1 day	<u>Seasonal Program</u> <b>Twice per year Timing</b> Apply in October/November (spring/early summer) and March/April (late summer/autumn). Use the higher rate (concentration) when borer pressure or damage is high. <b>Once per year Timing</b> Apply in October/November OR March/April. <u>Monitoring Program</u> Monitor weevil borer populations carefully by trap counts and/or corm damage ratings, beginning in September when pest activity is on the increase and continue until April. Apply treatment when banana weevil borers reach or exceed acceptable threshold levels. Monitor borer control after application and re-treat as required. <b>Banana weevil borer:</b> Application should be made <b>after rain or irrigation</b> during periods of high adult borer activity. <b>Banana rust thrips:</b> Application against banana weevil borer will give coincident rust thrips control, particularly when application is made when thrips activity is on the increase usually beginning September and into the summer months. <u>Application Method</u> <u>Stool Treatment Application</u> Remove trash from the base of stools and apply 500 - 750mL of spray solution to each stool, depending on stool size. Treat the bottom 30 cm of each stool as well as the soil in a 30 cm band around each stool, ensuring thorough treatment of both butt(s) and follower(s). Use the

CROP	PEST	STATE	RATE
Bananas (Cont'd)			
	Strawberry spider mite ( <i>Tetranychus lambi</i> )	Qld & WA only	40mL /100L
Cotton	Native budworm ( <i>Helicoverpa punctigera</i> ) Cotton bollworm ( <i>Helicoverpa armigera</i> )  Two spotted mite ( <i>Tetranychus urticae</i> )  Green mirid ( <i>Creontiades dilutus</i> ) Apple dimpling bug ( <i>Campylomma liebknechti</i> )	Qld, NSW & WA only	600-800mL/ha

4

WHP	CRITICAL COMMENTS
	lower spray volume of 500 mL on small stools less than 50 cm across the entire base. <u>Band Treatment Application</u> Apply as a band application with a side delivery boom and offset nozzles on both sides of the row with the spray pattern positioned to spray 30cm of soil on either side of the row and 30cm in height. Aim to apply a total spray volume of 1L/stool area. For single sucker row configurations apply 28L of solution per 100 metres of row in a band 0.5m wide on each side of the row overlapping in the center. For double sucker row configurations apply 56L of solution per 100 metres of row in a band 1m wide on each side of the double row with the spray pattern overlapping between the rows.
8 days	Monitor mite population on old leaves particularly during hot dry conditions. Apply Talstar 100 EC as a preventative rather than a curative treatment before damage occurs, and before mite numbers build up to damaging levels. Follow up applications may be required at 10 - 14 day intervals. Thorough coverage of the lower leaf surface is essential to ensure good control. Use a total spray volume of 300 - 500 L/ha.
14 days (H)  DO NOT GRAZE OR CUT FOR STOCK-FEED  DO NOT FEED COTTON TRASH TO LIVESTOCK	Apply as indicated by field checks. Use the higher rate when pest pressure is high, conditions favour pest development and when increased residual protection is required. <b>Budworm and Bollworm:</b> Applications should be timed to coincide with egg hatch and when small larvae up to 5 mm are present. Do not apply this product to <i>Helicoverpa</i> (= <i>Heliothis</i> ) <i>armigera</i> larvae larger than 5 mm in length. <b>Two spotted mite:</b> Applications against <i>Helicoverpa</i> spp will give good control of coincident two spotted mite, particularly when applied on low mite populations (around 10% leaf infestation). If conditions continue to favour mite development a second application may be required 14 - 20 days later. <b>Green mirid &amp; Apple dimpling bug:</b> Apply at recommended threshold levels as indicated by field checks. Use the higher rate for increased pest pressure and longer residual protection.

5

CROP	PEST	STATE	RATE
Cotton (Cont'd)	Silverleaf whitefly ( <i>Bemesia tabaci</i> ) Biotype B	Qld, NSW & WA only	800mL/ha
	False wireworm ( <i>Pterohlaeus alternatus</i> ) Sugarcane wireworm ( <i>Agrypnus variabilis</i> )		375mL/ha* or 3.8mL/100m of row
Canola, Faba beans, Subterranean clover, Clover, Barley, Field peas, Lupins, Lucerne, Wheat	Redlegged earth mite ( <i>Halotydeus destructor</i> ) Brown pasture looper ( <i>Ciampa arietaria</i> )	All States	50-100mL/ha
	Blue oat mite ( <i>Penthaleus major</i> ) Pasture webworm ( <i>Hednota</i> spp.)		100mL/ha
	Bryobia mites ( <i>Bryobia</i> spp.)		200mL/ha
Canola	Vegetable weevil ( <i>Listroderes difficilis</i> )	All States	100-200mL/ha

6

WHP	CRITICAL COMMENTS
14 days (H)  DO NOT GRAZE OR CUT FOR STOCK-FEED  DO NOT FEED COTTON TRASH TO LIVESTOCK	Apply as indicated by field checks before populations reach damaging levels. Thorough coverage of the crop canopy is essential. The adult stage of silverleaf whitefly should be targeted. Do not spray crops with a high population of the juvenile stages of silverleaf whitefly unless using with another insecticide that is effective against these stages. Use Talstar 100EC in rotation with insecticides from at least 2 other insecticide groups that are registered or permitted for use against silverleaf whitefly on cotton. Do not apply more than 2 applications of Talstar 100EC per crop. If an approved Resistance Management Strategy is in place for a particular area, this should be followed. Tank mixes of Talstar 100EC with Synergy <sup>®</sup> Insecticide Synergist may improve control of silverleaf whitefly.
	<b>Wireworms:</b> Apply as a spray into the furrow at planting. Use a spray nozzle which will deliver a coarse spray in a total volume of 60 - 100 L/ha in a 10 cm band over the seed before soil is brought in behind covering tynes in front of the press wheel. * The rate is based on a 1m row spacing. If row spacing varies from 1m then apply at the use rate according to mL/100m of row.
4 weeks (grazing)	Apply as a broadcast ground rig application in a total water volume of 50-200L/ha or by air in a minimum total water volume of 20 L/ha. Apply to bare soil after conventional cultivation and sowing or onto well grazed or sprayed pasture after direct drilling. Treat infested paddocks after sowing and before or soon after seedling emergence. Use the higher rate on heavier infestations and for longer residual protection. Talstar 100 EC is compatible with some herbicides. See compatibility statement for details.  Use the 100mL rate when pest pressure is low. Monitor adjacent habitat and edges of the field for the presence of vegetable weevil prior to making a decision whether to spray.

7

CROP	PEST	STATE	RATE
Citrus	Leafeating weevil ( <i>Eutinophaea bicristata</i> )	All States	<p><b>Pre-emergence program</b> 12.5 or 25mL/tree</p> <p><b>Post-emergence monitoring program</b> 6mL/tree</p>
Cucurbits (field grown only)	Native budworm ( <i>Helicoverpa punctigera</i> ) Corn earworm ( <i>Helicoverpa armigera</i> ) Cucumber moth ( <i>Diaphania indica</i> )	All States	<p><b>High Volume</b> 40-60mL/100L or <b>Low Volume</b> 400-600mL/ha</p>

WHP	CRITICAL COMMENTS
-	<p>Apply as a high volume band application in a 1.5 to 2 metres wide swath, to the ground, both sides of the row, under each tree. Aim to apply a total spray volume of 5 to 10L/tree (e.g. at 250 trees/ha = 1250 to 2500L/ha).</p> <p><b>Pre-emergence program:</b> Apply just prior to, or at the first sign of major beetle emergence in mid-October. Use the higher rate in blocks with a history of high beetle numbers or when longer residual control is required.</p> <p><b>Post-emergence monitoring program:</b> Apply at peak beetle emergence in October / November as indicated by field monitoring. (Refer to monitoring statement on label). Follow up treatment maybe necessary based on a threshold of 25 beetles per 10 sites per orchard in consecutive counts 1-2 weeks apart.</p>
1 day	<p><b>Crop Monitoring Program</b> Apply as indicated by field checks. Applications should be timed to coincide with egg hatch and when small larvae up to 5mm are present. Do not apply this product to <i>Helicoverpa (=Heliothis) armigera</i> larvae larger than 5mm in length.</p> <p><b>Schedule Spray Program</b> If fields are not checked during pest infestation periods, apply on a 7-10 day alternating program. Use the higher rate and shorter interval when pest infestations are more severe and when increased residual protection is required. Do not apply this product to <i>Helicoverpa armigera</i> larvae larger than 5mm in length.</p> <p>Use Talstar 100EC in rotation with insecticides from at least 2 other non-pyrethroid insecticide groups that are registered or permitted for use against <i>Heliothis</i> in cucurbits. Do not apply more than 2 applications of Talstar 100EC per crop.</p>



CROP	PEST	STATE	RATE
Cucurbits (field grown only) (Cont'd)	Silverleaf whitefly ( <i>Bemesia tabaci</i> ) Biotype B	Qld, NSW, NT & WA only	<b>High Volume</b> 60-80mL/100L or <b>Low Volume</b> 600-800mL/ha
Grapes	Fig longicorn ( <i>Acalolepta vastator</i> )	NSW, ACT & WA only	1000mL/100L
Lucerne seed crops	Native budworm ( <i>Helicoverpa punctigera</i> )	All States	400-600mL/ha

WHP	CRITICAL COMMENTS
1 day	Apply as indicated by field checks before populations reach damaging levels. The higher rate should be used where moderate to high populations are present. When applying as a dilute spray use a minimum water volume of 500L/ha increasing to 1500L/ha as crops grow. Thorough coverage of all leaf surfaces is important to obtain good control. The adult stage of silverleaf whitefly should be targeted. Do not spray crops with a high population of the juvenile stages of silverleaf whitefly unless using with another insecticide that is effective against these stages. Use Talstar 100EC in rotation with insecticides from at least 2 other insecticide groups that are registered or permitted for use against silverleaf whitefly in cucurbits. Do not apply more than 2 applications of Talstar 100EC per crop. If an approved Resistance Management Strategy is in place for a particular area (eg. Silverleaf Whitefly in the Burdekin and Bowen Districts of central Queensland), this should be followed.
-	The application <b>MUST</b> be made at late dormancy after pruning and before bud burst. Apply a single high volume spray, with nozzles directing the spray solution to the trunk and cordons (arms) of grape vines to achieve thorough wetting of the bark. Total spray volume should be about 500mL/vine achieved by hand application.
-	Do not treat lucerne seed crops for alfalfa sprout production. Apply as indicated by field checks after the commencement of flowering. Use the higher rate when pest pressure is high, conditions favour pest development and when increased residual protection is required. <b>Native Budworm:</b> Applications should be timed to coincide with egg hatch and when small larvae up to 5 mm are present.

CROP	PEST	STATE	RATE
Navy beans	Native budworm ( <i>Helicoverpa punctigera</i> ) Corn earworm ( <i>Helicoverpa armigera</i> )	All States	600-800mL/ha
Peaches, Nectarines, Plums, Apricots	Carpophilus beetles ( <i>Carpophilus</i> spp.)	All States	<b>Dilute spraying</b> 50mL/100L  <b>Concentrate spraying</b> Refer to the Mixing/ Application section
Pears	Longtailed mealybug ( <i>Pseudococcus</i> <i>longispinus</i> )	Vic & WA only	25mL/100L plus Ampol DC Tron at 1L/100L

WHP	CRITICAL COMMENTS
14 days (harvest and grazing)	Apply as indicated by field checks from flowering onwards. Use the higher rate when pest pressure is high, conditions favour pest development and when increased residual protection is required. <b>Budworm and Earworm:</b> Applications should be timed to coincide with egg hatch and when small larvae up to 5mm are present. Do not apply this product to <i>Helicoverpa</i> (= <i>Heliothis</i> ) <i>armigera</i> larvae larger than 5mm in length.
1 day	Monitor stone fruit orchards for <i>Carpophilus</i> beetle as fruit approach maturity and become susceptible to attack. Apply Talstar 100EC as a dilute spray before beetles reach damaging levels. Apply to the foliage and fruit of trees. Continue to monitor beetle numbers and if necessary reapply Talstar 100EC up to 1 day before harvest or use another insecticide registered for this purpose. Apply no more than 2 applications per season. <b>There must be a minimum of 10 days between the re-treatment and the initial application.</b>  Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Do not use at rates greater than 100 mL per 100L of water when using concentrate spraying.  Cultural control methods (eg. destruction of fallen fruit by mulching) should be used to prevent excessive build up of <i>carpophilus</i> beetle.
14 days	Examine wood for the presence of over wintering longtailed mealy bugs but do not spray until large numbers of young nymphs emerge in spring. Apply this mixture to near the point of runoff to all above ground parts of the tree between green tip to commencement of flowering. Do not spray after flowering has commenced.

CROP	PEST	STATE	RATE
Poppies	Redlegged earth mite ( <i>Halotydeus destructor</i> )	Tas only	50-100mL/ha
Sugarcane	Sugarcane wireworm ( <i>Agrypnus</i> spp.)	Qld, NSW & WA only	375mL/ha* or 5.6mL/100m of row
Tomatoes	Native budworm ( <i>Helicoverpa punctigera</i> ) Corn earworm ( <i>Helicoverpa armigera</i> ) Two spotted mite ( <i>Tetranychus urticae</i> ) Tomato russet mite ( <i>Aculops lycopersici</i> )	All States	<b>High Volume</b> 40-60mL/100L or <b>Low Volume</b> 600mL/ha

WHP	CRITICAL COMMENTS
-	Apply as a broadcast ground rig application in a total water volume of 50-200L/ha or by air in a minimum total water volume of 20L/ha. Apply to bare soil after conventional cultivation and sowing or onto well grazed or sprayed pasture after direct drilling. Treat infested paddocks after sowing and before or soon after seedling emergence. Use the higher rate on heavier infestations and for longer residual protection. Talstar 100EC is compatible with some herbicides. See compatibility statement for details.
-	Apply as a spray into the furrow at planting. Use a spray nozzle which will deliver a coarse spray in a total volume of 60 - 100 L/ha in a band 20 - 30 cm wide over the base of the furrow on top of the setts and before covering soil is brought in by tynes. * The rate is based on a 1.5m row spacing. If row spacing varies from 1.5m then apply at the use rate according to mL/100m of row.
1 day	Do not use low volume ground or air application on trellis tomatoes.  <b>Crop Monitoring Program</b> <b><i>Helicoverpa</i> spp:</b> Apply as indicated by field checks. Applications should be timed to coincide with egg hatch and when small larvae up to 5 mm are present. Do not apply this product to <i>Helicoverpa</i> (= <i>Heliothis</i> ) <i>armigera</i> larvae larger than 5 mm in length.  <b>Mites:</b> Applications against <i>Helicoverpa</i> spp will give good control of coincident mites, particularly when applied on low mite populations. If conditions continue to favour mite development, a second application may be required 14-20 days later.  <b>Schedule Spray Program</b> If fields are not checked during pest infestation periods, apply on a 7-10 day alternating program with a non pyrethroid insecticide. Use the higher rate (high volume application) and shorter interval when pest infestation is more severe and when increased residual protection is required. Do not apply this product to <i>Helicoverpa armigera</i> larvae larger than 5 mm in length.

CROP	PEST	STATE	RATE
Tomatoes (Cont'd)	Silverleaf whitefly ( <i>Bemesia tabaci</i> ) Biotype B	Qld, NSW, NT & WA only	<b>High Volume</b> 60-80mL/100L or <b>Low Volume</b> 600-800mL/ha
	Whitefly ( <i>Trialeurodes</i> <i>vaporariorum</i> )	All States	30mL/100L water

WHP	CRITICAL COMMENTS
1 day	Apply as indicated by field checks before populations reach damaging levels. The higher rate should be used where moderate to high populations are present. When applying as a dilute spray use a minimum water volume of 500L/ha increasing to 1500L/ha as crops grow. Thorough coverage of all leaf surfaces is important to obtain good control. The adult stage of silverleaf whitefly should be targeted. Do not spray crops with a high population of the juvenile stages of silverleaf whitefly unless using with another insecticide that is effective against these stages. Use Talstar 100EC in rotation with insecticides from at least 2 other insecticide groups that are registered or permitted for use against silverleaf whitefly in tomatoes. Do not apply more than 2 applications of Talstar 100EC per crop. If an approved Resistance Management Strategy is in place for a particular area (eg. Silverleaf Whitefly in the Burdekin and Bowen Districts of central Queensland), this should be followed.
	Apply as indicated by pest incidence and repeat as necessary. Use a total spray volume of 2500L/ha.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

**WITHHOLDING PERIODS:**

**CUCURBITS, TOMATOES, PEACHES, NECTARINES, PLUMS, APRICOTS: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**

**BANANAS: For Ground Applications - DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**

**For Foliar Applications - DO NOT HARVEST FOR 8 DAYS AFTER APPLICATION.**

**COTTON: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.**

**DO NOT GRAZE OR CUT FOR STOCKFEED. DO NOT FEED COTTON TRASH TO LIVESTOCK.**

**PEARS: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.**

**NAVY BEANS: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.**

**CANOLA, SUBTERRANEAN CLOVER, CLOVER, FIELD PEAS, FABA BEANS, WHEAT, BARLEY, LUCERNE, LUPINS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION.  
HARVEST WHP NOT REQUIRED WHEN USED AS DIRECTED.**

**CITRUS, GRAPES, POPPIES, SUGARCANE: NOT REQUIRED WHEN USED AS DIRECTED**

#### **GENERAL INSTRUCTIONS**

Talstar® 100 EC Insecticide/Miticide is a contact and residual insecticide/miticide. It can be used as a protective treatment when applied at regular intervals or as a knockdown treatment to control existing pests. Best results are obtained when Talstar 100 EC is applied before pest populations build up to damaging levels.

This product is not suitable for use in Integrated Pest Management (IPM) programs where mite or other insect predators or parasites are established and providing effective mite and other insect control.

#### **APPLICATION**

Talstar 100 EC may be applied by either ground rig or aircraft. Thorough coverage is essential to ensure adequate control. Do not apply as a fog or mist.

#### **Dilute Spraying:**

- Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off.
- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

#### **Concentrate Spraying:**

- (a) Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.
- (b) Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.
- (c) Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- (d) The mixing rate for concentrate spraying can then be calculated in the following way:  
**Example only**
  1. Dilute spray volume as determined above: For example 1000 L/ha.
  2. Your chosen concentrate spray volume: For example 500L/ha.
  3. The concentration factor in this example is: 2.X (ie.  $1000L \div 500L = 2$ ).
  4. If the dilute label rate is 50 mL/100L, then the concentrate rate becomes  $2 \times 50$ , that is 100 mL / 100L of concentrate spray.
- (e) The chosen spray volume, amount of product per 100L of water, and the sprayer set up and operation may need to be changed as the crop grows.
- (f) For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

**Ground Application:** Applications should be made as a fine spray preferably using hollow cone nozzles and a droplet size of 150 to 200 microns. The application volume will depend on the type of crop to be treated. The following are suggested:

Low volume broadacre applications to - e.g. cereals, canola, grain legumes, lucerne, poppies, subterranean clover: 50-200 L/ha.

Low volume row crops applications to cotton, cucurbits, tomatoes, navy beans: 50-200 L/ha.

High volume applications to row crops - e.g. trellised tomatoes, cucurbits: 200 - 1500 L/ha except as noted in critical comments. Use 200 L/ha from transplanting increasing to 1500L/ha at maturity.

High volume directed spray:

Grapes: Apply by hand application, using a high volume coarse spray of 500mL/vine. (e.g. at approx. 2500 vines/ha = 1250L/ha).

Foliar sprays to bananas: 300 to 500 L/ha.

High volume application to stone fruit: 1000 to 2000 L/ha.

**Soil Applied Sprays:**High volume application:**Bananas:**

Stool treatment: Apply as a coarse spray at 500-750mL per stool.

Band treatment: Apply as a band application with a side delivery boom and offset nozzles - 1L of spray solution per stool.

**Citrus:** Apply as a high volume, directed spray to the ground under each tree. For optimum control apply to both sides of the tree. Total spray volume should be 5 to 10 L / tree (e.g. at 250 trees/ha = 1250 to 2500L/ha).

In furrow applications:**Cotton & Sugarcane:**

Use a coarse spray: 60 to 100 L/ha as a band over the seed or sett before covering with soil - refer to critical comments for details.

**Aerial Application:**

Use at least 20 L/ha of total spray volume. Spray during the cooler parts of the day or night. To reduce possibility of drift avoid spraying in calm conditions or when wind is light and variable. Preferably, spray in a crosswind. Use suitable application equipment and/or nozzles to deliver a fine spray with a droplet size of 150 to 200 microns.

A spraydrift minimisation strategy should be employed at all times when aerially applying sprays to, or near, sensitive areas. The strategy envisaged is best exemplified by the cotton industry's Best Management Practice manual.

**MONITORING**

Post-emergence monitoring of Citrus leafeating weevil populations: At first sign of major beetle emergence in mid October commence monitoring at 1 to 2 week intervals. Place polystyrene fruit box (330 x 480mm) under tree, shake branches vigorously, repeat on ten randomly selected trees throughout orchard. If 25 beetles or more are recorded in consecutive counts, treatment is required.

**MIXING**

Add the required quantity of Talstar 100 EC to water in the spray tank and mix thoroughly. Maintain agitation during mixing and application.

**COMPATIBILITY**

Talstar 100 EC is compatible with commonly used fungicides such as Dithane® M45, Antracol®, Barrack®, Bravo® and the herbicides - Spray.Seed®, Broadstrike®, Spinnaker®, Simagranz®, Dual®, Sencor®, Glean®, Logran® and Stomp®.

**SURFACTANTS**

Talstar 100 EC contains a surfactant. Additional surfactant may only be necessary on hard to wet plants and in high volume situations.

**\* NOTICE \***

*Helicoverpa* (= *Heliothis*) *armigera* resistance in Northern NSW and Qld. To help contain pyrethroid resistance in *H. armigera*, the Summer Crop Insecticide strategy as developed by the Qld Department of Primary Industries and NSW Agriculture should be adhered to. Failure to observe the strategy may result in widespread resistance affecting the future viability of summer cropping.

**RESISTANCE WARNING****GROUP 3A INSECTICIDE**

For insecticide resistance management Talstar 100 EC is a Group 3A insecticide. Some naturally occurring insect biotypes resistant to Talstar 100 EC and other Group 3A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Talstar 100 EC or other Group 3A insecticides are used repeatedly. The effectiveness of Talstar 100 EC on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, FMC Australasia Pty Ltd accepts no liability for any losses that may result from the failure of Talstar 100 EC to control resistant insects.

Talstar 100 EC may be subject to specific resistance management strategies. For further information contact your local supplier, FMC Australasia Pty Ltd representative or local agricultural department agronomist.

**STONE FRUIT EXPORT ADVICE**

Export of Treated Stone Fruit - Some export markets do not have suitable Maximum Residue Limits or import tolerances in place. Please contact FMC or the Australian Fresh Stone Fruit Growers Association prior to using this product on crops destined for export.

**RE-ENTRY TO TREATED FIELDS/CROPS**

Do not allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing should be laundered after each day's use.

**PRECAUTION**

Do not use human flaggers/workers unless they are protected by engineering controls such as enclosed cabs.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

Dangerous to fish and aquatic organisms. DO NOT contaminate streams, rivers or waterways with the product or the used containers. Tail drains which flow from treated areas should be prevented from entering river systems.

**PROTECTION OF LIVESTOCK**

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging. Spray in the early morning when bees are not actively foraging.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

The method of disposal of the container depends on the container type. Read the 'Storage and Disposal' instructions on the label that is attached to the container.

**SAFETY DIRECTIONS**

Poisonous if swallowed. Will damage eyes. Will irritate nose, throat and skin. Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. When using the prepared spray with hand held application equipment in bananas, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, do NOT induce vomiting. Give a glass of water.

**MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet which can be obtained from the supplier.

**WARRANTY**

FMC makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage are contrary to label instructions.

<b>In a Transport Emergency Dial 000 Police or Fire Brigade</b>	<b>SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 498 ALL HOURS - AUSTRALIA WIDE</b>
-----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------

FMC® and Talstar® are Registered Trademarks of FMC Corporation, Philadelphia, USA  
® Dithane, Antracol, Barrack, Bravo, Spray, Seed, Broadstrike, Spinnaker, Simagranoz, Dual, Sencor, Glean, Logran, Stomp and Synergy are Registered Trademarks.

APVMA Approval No: 45704 / 58587