

## **POISON**

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

# **Nufarm Maldison 500**

**Insecticide**

**ACTIVE CONSTITUENT: 500 g/L MALDISON**  
**(an anticholinesterase compound)**  
**SOLVENT: 394 g/L LIQUID HYDROCARBONS**

**GROUP 1 B INSECTICIDE**

For the control of a wide range of insect pests in certain crops, wildflowers,  
and eucalypts as per the Directions For Use table.

**IMPORTANT: READ THE ATTACHED  
LEAFLET BEFORE USE.**

Contents: 5 Litres  
20 Litres

Nufarm Australia Limited  
ACN 004 377 780  
103-105 Pipe Road  
Laverton North Victoria 3026  
Tel: (03) 9282 1000  
Fax: (03) 9282 1001



### **STORAGE AND 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 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 500 mm 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**

Harmful if inhaled or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. Repeated minor exposure may have a cumulative poisoning effect. Obtain an emergency supply of atropine tablets 0.6mg. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and rubber gloves. If product on skin, immediately wash with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

### **FIRST AID**

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 13 11 26) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed DO NOT induce vomiting. Give a glass of water. If swallowed activated charcoal may be advised. Give atropine if instructed.

### **MATERIAL SAFETY DATA SHEET**

For further Information refer to the Material Safety Data Sheet (MSDS).

### **CONDITIONS OF SALE**

"Nufarm Australia Limited ('Nufarm') shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Nufarm's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Nufarm has any authority to add to or alter these conditions."

APVMA Approval No: 33018/5L/0207  
APVMA Approval No: 33018/20L/0207

**In case of emergency: Phone 1800 033 498**

Ask for shift supervisor. Toll free 24 hours.

Date of Manufacture:

Batch No:



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and eucalypts as per the Directions For Use table.

**IMPORTANT: READ THOROUGHLY BEFORE USING.**

APVMA Approval No.: 33018/0207

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## DIRECTIONS FOR USE

### 1. TREE AND VINE CROPS

This table shows rates for dilute spraying. For concentrate spraying, refer to the Mixing/Application section.

Situation & Crop	Pests Controlled	State	Rate	WHP (days)	Critical Comments
Apples and Pears	Apple leaf hopper, Codling moth, Red spider mite, Thrips, Woolly aphid	NSW, Vic, SA, WA only	125 mL/100 L water	3	Apply when pests first appear.
	Apple leaf hopper, Codling moth, European red mite, Thrips, Woolly aphid	Tas, WA only			
Citrus	Purple scale, Red scale, Soft brown scale	NSW, Vic, SA, WA only	200 mL/ 100 L plus 1.3 L summer oil per 100 L water	3	Apply November-March, with two applications, the first November-January and the second in February. Early application gives best results.
	Pink wax scale				Apply December-early January or when crawlers are active.
	Purple scale, Soft brown scale	Tas, WA only			Apply November-March, with two applications, the first November-January and the second in February. Early application gives best results.
	Citrus aphid, Citrus butterfly, Bronze orange bug, Rutherglen bug, Spiny lemon bug, Tree hoppers, Thrips	NSW, Vic, SA, WA only	125 mL/100 L water		Apply when pests first appear.
	Citrus aphid, Rutherglen bug, Tree hoppers, Thrips	Tas, WA only			
Fruit Trees	Fruit fly	WA only	BAIT 700 mL + 110 mL Protein Hydrolysate per 100 L water	3	Splash or spray foliage, regular weekly applications are required from 6 weeks before fruit is ripe to 2 weeks after harvest.
Grape Vines	Mealy bug	NSW, Vic, SA, Tas, WA only	200 mL/ 100 L water	3	Apply when pests first appear.
	Vine moth		125 mL/100 L water		
	Grape vine scale		125 mL/ 100 L plus 1.3 L summer oil per 100 L water		Apply during summer months if scale population increases.
Stone Fruit	Black peach aphid, European red mite, Green peach aphid, Oriental fruit moth	NSW, Vic, Tas, SA, WA only	125 mL/100 L water	3	Apply when pests first appear.

2. FIELD CROPS AND PASTURE					
Situation & Crop	Pests Controlled	State	Rate	WHP (days)	Critical Comments
Cereals, Non-Crop Areas, Pastures	Plague locust Small hoppers	NSW, SA, WA only	1.2 L/ha	1	Apply by ground only <b>Boom</b> Apply in 100 L water/ha.
		Vic only	2.2 L/ha		
	Plague locust Large hoppers	NSW, SA, WA only	1.7 L/ha		<b>Misting</b> Apply in 2.5 L water/ha. Repeat application as necessary.
	Field crickets ( <i>Teleogryllus commodus</i> )	Vic, Tas, SA, WA only	BAIT 250 mL/10 kg kibbled grain/ha		DO NOT store bait near stockfeed. Use immediately after preparation.  <b>Immature Crickets</b> Use lower rate.  <b>Mature Crickets</b> Mix in a drum or cement mixer and hold 24 hours before spreading. Spread in late afternoon and evening early in the season, and the morning late in the season. Baiting may fail if large quantities of pasture seed are present. Apply in the evening. Pasture cover must be low so that the chemical will have direct contact with the crickets. The method may fail if cold weather keeps crickets below the ground for a day or two, or if rain falls after application.
			BAIT 250-500 mL per 10-20 kg kibbled grain/ha		
			SPRAY 1.4 L in 25-50 L/ha water		
Lucerne	Lucerne flea	NSW, Vic, SA, Tas only	140-300 mL/ha	1	Rates vary according to stages of growth. Apply by low volume application using sufficient water to give adequate coverage at 3-4 week intervals after opening rains.
	Spotted alfalfa aphid	NSW, SA only	1.1 L/ha		Apply when insect appears. Use sufficient water to give thorough coverage.
	Pea aphid	Vic only			
	Field cricket ( <i>Teleogryllus commodus</i> )		BAIT 250 mL/10 kg kibbled grain/ha		DO NOT store bait near stockfeed. Use immediately after preparation. <b>Immature Crickets</b> Use lower rate.
			BAIT 250-500 mL per 10-20 kg kibbled grain/ha		<b>Mature Crickets</b> Higher rate for heavier infestations. Mix in a drum or cement mixer and hold 24 hours before spreading. Spread late in afternoon and evening early in the season and the morning late in the season. Baiting may fail if large quantities of pasture seed are present.
			SPRAY 1.4 L in 25-50 L/ha water		Apply in the evening. Pasture cover must be low so that the chemical will have direct contact with the cricket. The method may fail if cold weather keeps crickets below the ground for a day or two, or if rain falls after application.
Pastures	Spotted alfalfa aphid	NSW, SA, WA only	1.1 L/ha	1	Apply when insects appear. Use sufficient water to ensure thorough coverage.
Rapeseed	Rutherglen bug	Vic, SA, WA, Qld, NSW, Tas only	1.1 L/ha	-	Spray when insects appear at 7-10 day intervals if necessary.
Rice	Rice bloodworm larvae	NSW, WA only	600 mL/ha	-	Apply in 10-30 Litres of water per hectare by aircraft to rice bays at sowing time or within 24 hours of sowing or when infestations occur after the application of permanent water.
	Common Armyworm	NSW, Vic, Qld only	1.6 L/ha	1	When infestation is widespread, spray total crop. When infestation is moving as an army, spray the front.

3. VEGETABLE CROPS					
Situation & Crop	Pests Controlled	State	Rate	WHP (days)	Critical Comments
Cucurbits	Pumpkin beetle	NSW, Vic, SA, WA only	125-200 mL/ 100 L water	3	Apply when pests first appear. Adequate coverage is essential in later growth stages of these crops and rate and volume should be increased to give additional cover.
Tomatoes	Tomato russet mite	NSW, Vic, Tas SA, WA only	125-200 mL/ 100 L water	3	Apply when pests first appear. Adequate coverage is essential in later growth stages of this crop and rate and volume should be increased to give additional cover.
Vegetables (Cabbage, Cauliflowers, Tomatoes, Cucurbits, Lettuce, Celery, Carrots, Beans)	Aphids, Red legged earth mite (not Tas), Jassids, Green Vegetable bug, Leaf hoppers, Rutherglen bug, 28 Spotted ladybird (not Tas)	NSW, Vic, Tas, SA, WA, Qld only	125-200 mL/ 100 L water	3	Apply when pests first appear. Adequate coverage is essential in later growth stages of these crops and rate and volume should be increased to give additional cover.
4. STORED CEREAL GRAIN					
Grain Storage Facilities and Equipment	Stored Grain Insect Pests (except Lesser Grain Borer) including Rust-red flour beetle, Rice weevil, Saw-toothed grain beetle, Indian meal moth, Tropical warehouse moth	WA only	5 L/100 L water (10 L dilute spray treats approx. 200 m² of wall or floor surface)	-	Apply diluted spray to the walls, floors, roof structure, machinery, transport vehicles, and areas around storage facilities. This treatment should be used as a routine hygiene procedure before grain is stored in any facility. Precautions should be taken to prevent surface contamination of grain. Treatment should not be repeated more frequently than at 2 monthly intervals in warm weather and at 3 monthly intervals in winter months.
Up to 6 months protection			2.4 L/100 L water (12 ppm) (1 L dilute spray treats 1 tonne of grain)	Refer to withholding Period section	Apply to the grain as it is being transferred into storage. Suitable equipment should be installed which will give an even coverage to the grain and is capable of adjustment with the flow rate of the grain.
At 3 month intervals			50 mL/1 L water (5 L dilute spray treats 100 m²)	-	Apply to the surface of the grain in storage.
5. MISCELLANEOUS					
Animal Quarters	Fleas, ticks and flies	All States	10 mL/ 1 L water (50 g sugar may be added per 1 L spray as a bait for fly control)	-	Apply thoroughly to animal houses such as stables, kennels, bedding using 1 litre of diluted spray per 20 m² of area. Good basic sanitation is necessary for a successful fly control programme. Remove manure piles and other waste materials which act as breeding sites.
Dairies, Stables, Factories, Homes	Flies	All States	2 L/100 L water	-	Treat surface where flies congregate such as walls, ceilings, stanchions, windows, etc. Repeat as required.
Poultry and Pig Sheds	Common hide beetle ( <i>Dermestes masculatus</i> )	All States	6 L/100 L water Spray 5 L solution to 100 m²	-	Ensure proper saturation and run-off.
Eucalypts and Natives	Autumn gum moth, Gumleaf skeletoniser, Leaf beetles, Spring beetles, Spitfires	WA only	300 mL + 125 mL Activator per 100 L water	-	When using with alkaline water use 500mL LI700 per 100L water instead of Activator.
	Scale insects	WA only	170 mL +3.3 L White oil per 100 L water	-	Apply thoroughly to ensure complete coverage.

Situation & Crop	Pests Controlled	State	Rate	WHP (days)	Critical Comments
<b>Flowers and Ornamentals</b>	Aphids, Azalea lace bug, Mites	NSW, SA, Vic, Tas, WA only	125 mL/100 L water	-	Spray when insects appear at 7-10 day intervals if necessary.
	Scales on Hardy plants		200 mL/100 L plus 1.3 L summer soil per 100 L water		
<b>Wild Flowers and Proteas</b>	Aphids, Leafhoppers, Sucking Bugs, Thrips	WA only	100 mL/100 L water	-	Apply thoroughly to ensure complete coverage.
	Grasshoppers		500 mL/100 L water BAIT 50 mL/1 kg bran		Mix bait in plastic bag. Leave overnight. Spread thoroughly.
<b>Mosquitoes</b>	Adults	All States	600 mL/ha	-	Use pressure spray or misting machine. Dilute with water as required. Application should be timed for periods of major emergence of adults.
	Larvae		1L/ha		Treat breeding areas as soon as larvae are seen.
<b>Tobacco: Seed Bed Field</b>	Brown vegetable weevil, Springtails	Vic, WA only	100 mL/100 L water	-	Apply the spray to tobacco in seed-bed when the insects are present. Repeat application of the spray at 7-10 day intervals if necessary to control the insects.
	Small plague wingless grasshoppers				

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

**WITHHOLDING PERIOD:**

**Rice (Common Armyworm): DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**

**Pasture, Lucerne, Cereal Crops: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION.**

**Fruit, Vegetables: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.**

**Stored Cereal Grain - 12 PPM - TREATED GRAIN SHOULD BE HELD IN STORE AND SHOULD NOT BE USED FOR PROCESSING INTO FOOD FOR HUMAN CONSUMPTION OR FOR STOCK FOOD UNTIL THE MALDISON LEVEL HAS DECLINED TO 8 PPM OR UNTIL 90 DAYS HAS ELAPSED AFTER TREATMENT.**

## GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions.

## MIXING/APPLICATION

As this product is a "pour in" type concentrate, no pre-mixing is required. Simply add the recommended quantity of this product to the required volume of water and stir or set the agitator.

### 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 100L of water. Spray to the point of run-off unless otherwise specified.

The required dilute spray volume will change unless otherwise specified and the sprayer set up and operation may also need to be changed, as the crop grows.

### Concentrate Spraying:

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.

Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.

Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.

The mixing rate for concentrate can then be calculated in the following way:

#### EXAMPLE ONLY

1. Dilute spray volume as determined above:  
For example 1500L/ha
2. Your chosen concentrate spray volume:  
For example 500L/ha
3. The concentration factor in this example is: 3X  
(ie  $1500L \div 500L = 3$ )
4. If the dilute label rate is 10mL/100L, then the concentrate rate becomes  $3 \times 10$ , that is 30mL/100L of concentrate spray.

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.

For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

## INSECTICIDE RESISTANCE WARNING

### GROUP 1B INSECTICIDE

For insecticide resistance management Nufarm Maldison 500 Insecticide is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to Maldison 500 and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Maldison 500 or other Group 1B insecticides are used repeatedly. The effectiveness of Maldison 500 on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of Maldison 500 to control resistant insects. Maldison 500 may be subject to specific resistance management strategies. For further information contact your local supplier, Nufarm Australia Limited representative or local agricultural department agronomist.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

## PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray on any plants in flower while bees are 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. Triple or preferably pressure rinse 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 500 mm 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

Harmful if inhaled or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. Repeated minor exposure may have a cumulative poisoning effect. Obtain an emergency supply of atropine tablets 0.6mg. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and rubber gloves. If product on skin, immediately wash with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.



**FIRST AID**

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 13 11 26) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed DO NOT induce vomiting. Give a glass of water. If swallowed activated charcoal may be advised. Give atropine if instructed.

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