

## POISON

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

# Nufarm Lepidex 500

Insecticide

**ACTIVE CONSTITUENT: 500 g/L TRICHLORFON**  
(an anticholinesterase compound)

**GROUP 1 B INSECTICIDE**

For the control of a wide range of insects in various situations as per the Directions For Use table.

**IMPORTANT: READ THE ATTACHED BOOKLET  
BEFORE USING THIS PRODUCT.**

Contents: 5 Litres  
20 Litres  
200 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**

Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin and clothing. DO NOT inhale spray mist. Obtain an emergency supply of Atropine tablets 0.6 mg. When preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves, goggles, impervious footwear and half piece respirator with combined dust and gas cartridge (canister). If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and 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, goggles, respirator and if rubber wash with detergent and warm water, and contaminated clothing.

### **FIRST AID**

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, give one Atropine tablet every 5 minutes until dryness of the mouths occurs - if poisoned by skin absorption or through lungs, remove any contaminated clothing, wash skin thoroughly and give Atropine tablets as above. Get to a doctor or hospital quickly.

### **MATERIAL SAFETY DATA SHEET**

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

### **CONDITIONS OF SALE**

"Any provisions or rights under the Trade Practices Act 1974 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

APVMA Approval No.: 33110/5L/0305  
APVMA Approval No.: 33110/20L/0305  
APVMA Approval No.: 33110/200L/0305


**In case of emergency: Phone 1800 033 498**  
Ask for shift supervisor. Toll free 24 hours.  
For Technical Enquiries call 1800 639 899

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Batch No:

Date of Manufacture:



<p>ORGANOPHOSPHORUS PESTICIDES, LIQUID, TOXIC, FLAMMABLE, N.O.S, (Trichlorfon)</p>	
<p>UN No: 3017</p>	
<p>PACKAGING GROUP: III</p>	
<p>HAZCHEM: 2 W</p>	
<p>IN AN EMERGENCY DIAL: 000 POLICE OR FIRE BRIGADE</p>	<p>IN AN EMERGENCY, SPECIALIST ADVICE NUFARM LIMITED 1800 033 498</p>

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**DIRECTIONS FOR USE**

**1. TREE AND VINE CROPS**

Rates				Critical Comments
<p>This table shows rates for dilute spraying. For concentrate spraying, refer to the Mixing/Application section.</p>				<p><b>For all uses in this table:</b> Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to target crop whether applying this product by dilute or concentrate spraying methods'. For concentrate spraying DO NOT use at rates greater than 5 times the dilute spraying rate.</p>
Situation/Crop	Pest Controlled	State	Rate	Critical Comments
<b>Avocados</b>	Fruit Spotting Bug, Monolepta Beetle	Qld, NT only	200 mL per 100 L water	Apply when pests are first seen.
<b>Grapevines</b>	Grapevine Moth	Qld, SA, WA, NT only	250 mL/100 L	Spray when pests are first seen and repeat if necessary.
<b>Guava</b>	Queensland Fruit Fly	Qld, NSW, NT only	1 st spray 250 mL/100 L	Apply at start of stinging. Repeat at half concentration every 7-10 days.
<b>Macadamia &amp; Pawpaw</b>	Fruit Spotting Bug	Qld, NSW, NT only	100 mL per 100 L water	Apply when premature nut fall is evident. A second application 2 weeks later may be necessary.
	Banana Spotting Bug	Qld, NT only		
<b>Macadamia Flower</b>	Macadamia Flower Caterpillar	Qld, NSW, NT only		Two applications in flowering period.
<b>Passionfruit</b>	Passion Vine Bug, Green Vegetable Bug	Qld, NT only		Apply when pests first seen.
<b>Stone Fruit</b>	Queensland Fruit Fly	Qld, NSW, Vic, WA, NT only	1 st spray 250 mL per 100 L water	Apply at start of stinging. Repeat at half concentration every 7-10 days.
<b>Pome Fruit</b>	Fruit Fly		1 st spray 500 mL per 100 L water	
<b>Stone &amp; Pome Fruit</b>	Rutherglen Bug	NSW, Vic, Tas, SA, WA only	125 mL per 100 L water	Spray when pest outbreak occurs and repeat if reinvaded. Also spray nearby weeds.

**DIRECTIONS FOR USE**

**2. FRUIT AND VEGETABLES**

Situation/Crop	Pest Controlled	State	Rate	Critical Comments
<b>Blueberries</b>	Queensland Fruit Fly	NSW only	250mL/100L	Apply 21, 14 and 7 days before harvesting, when fruit fly are numerous. Treat in late afternoon after bees have finished foraging.
<b>Cucurbits, Brassicas, Beans, Celery, Peas, Potatoes, Lettuce</b>	Cutworm	Qld, NT only	100 mL per 100 L water or 900 mL/ha	Apply when pests are first seen.
<b>Dried Fruits</b>	Vinegar Fly	NSW, Vic, Tas, WA, SA only	200 mL per 100 L water	Spray drying racks and refuge heaps where flies are troublesome.
<b>Fruit Fly Foliage Bait</b>	Fruit Fly	Qld NSW, Vic, WA, NT only	125 mL per 16 L of water PLUS 320 mL yeast autoysate	Apply 50 to 120 mL/tree as a coarse spray to the lower foliage at approximately weekly intervals. Commence application 2 weeks before the crop is susceptible or as required by post monitoring and the program of cover sprays. Heavy rain may necessitate reapplication.
<b>Strawberries</b>	Cutworm	Qld only	100 mL per 100 L water	Apply when pests are first seen.
	Cluster Caterpillar	Qld, NT only	200 mL per 100 L water	
<b>Tomatoes</b>	Cutworms, Grey Cluster Bug, Rutherglen Bug	Qld only	100 mL per 100 L water or 900 mL/ha	Apply at start of stinging. Repeat at half concentration every 7-10 days.
	Fruit Fly	NSW, Vic, Qld, WA, NT only	250 mL per 100 L water	
<b>Vegetables</b>	Cabbage White Butterfly, Cabbage Moth	NSW, Vic, SA, WA, NT, Tas only	150 mL per 100 L water or 1.7 L/ha	Apply when pests are first seen and repeat at 7-10 day intervals.
	Rutherglen Bug		125 mL per 100 L water	Spray when pests outbreak occurs and repeat if reinvaded. Also spray nearby weeds.
	Green Vegetable Bug		150 mL per 100 L water or 1.4 L/ha	Apply when pests are first seen and repeat at 7-10 day intervals

## DIRECTIONS FOR USE

### 3. FIELD CROPS AND PASTURES

Situation/Crop	Pest Controlled	State	Rate	Critical Comments
<b>Cereal Crops, Grass Seed Crops, Legumes, Pastures</b>	Armyworm, Common Armyworm, Southern Armyworm (barley grub)	All States	1.2 L/ha	Spray when pests are active. A respray may be necessary depending on pest population.
<b>Pastures</b>	Cutworm	Qld, WA, NT only	1.2 L/ha	For best results spray late in the afternoon or at night. A respray may be necessary depending on pest population.
	Webworm, Sod Webworm	Qld, NT only	1.3 L/ha	Spray when pests are active. A respray may be necessary depending on pest population.
<b>Brassica Forage Crops</b>	Cabbage White Butterfly	Vic only	1.1-2.2 L/ha	Use higher rate if caterpillars are mature.
		SA only	1.1 L/ha	
<b>Linseed, Lupins, Oilseed Rape, Sunflower</b>	Common Armyworm, Southern Armyworm (barley grub)	NSW, Vic, WA only	1.2 L/ha	Spray when pests are active. A respray may be necessary depending on pest population.
	Southern Armyworm (barley grub)	Tas only	1.1-1.3 L/ha	Spray when pests are active. A respray may be necessary depending on pest population. Use higher rate against large larvae and heavier infestations.
<b>Lucerne</b>	Cutworms	Qld only	1.1 L/ha	Apply when pests are first seen.
	Climbing Cutworm or Native Budworm	SA only	900 mL/ha	
	Southern Armyworm	Vic only	1.1 L/ha	
<b>Maize</b>	Cutworms	Vic, Qld only	1.1 L/ha	Apply when pests are first noticed in the field.
	Armyworms	Qld only		
<b>Rice</b>	Bloodworm	NSW only	600-850 mL/ha	Apply the spray at sowing time or within 24 hours of sowing, by aircraft or ground application equipment to flooded bays when the water is 150 mm or less. DO NOT apply with pre-germinated seed.
	Leaf Miner		850 mL/ha	
<b>Rice Seed for Aerial Sowing</b>	Bloodworm		625 mL/1 L water/seed required to sow 1 ha	For application details, see General Instructions.
<b>Safflower</b>	Cutworms, Grey Cluster Bug, Rutherglen Bug	Qld, NT only	1.1 L/ha	Apply when pests are noticed in the field. NOTE: Sorghum: This product is phytotoxic to some varieties of sorghum including Alpha and Pioneer 846 varieties. A check should be made before applying this product to a sorghum crop as some new varieties may also be affected. For best results against cutworm spray late in the afternoon or night.
<b>Small Grains</b>	Armyworm, Cutworm			
<b>Sorghum</b>	Armyworm, Cutworm, Sorghum Head Caterpillar, Budworm			
<b>Soya Beans</b>	Green Vegetable Bug	Qld, NSW only	1.2 L/ha	
<b>Sugar Cane</b>	Armyworm	Qld, NSW only	1.2 L/ha	DO NOT apply unless armyworms are young and present in sufficient numbers to cause damage.
<b>Sunflowers</b>	Cutworm			Apply when pests are first seen.
	Common Armyworm, Southern Armyworm (barley grub)	SA, Vic only	1.1-1.3 L/ha	Spray from air or ground. Apply when pests are first seen. Use higher rates against large larvae and heavier infestations.
		NSW only	840 mL/ha	
	Southern Armyworm	Tas only	1.1-1.3 L/ha	
Rutherglen Bug	Qld, NSW, SA only	1.1 L/ha	Apply when pests are first seen and repeat if necessary. For best results against cutworm, spray late in the afternoon or at night.	

#### 4. MISCELLANEOUS

Situation/Crop	Pest Controlled	State	Rate	Critical Comments
<b>Fowl Houses, Piggeries, Stables, Dairies</b>	Flies (Maggots)	All States	240 mL per 100 L water (5 L spray per 10 sq. metres)	Spray or water onto areas where flies breed.
	Flies (Adults) (residual spray)		1.8 L per 100 L water (5 L spray per 40 sq. metres)	Apply as a spray to walls and other surfaces where flies alight or congregate.
<b>Turf</b>	Barley Grub, Lawn Armyworm	Qld, NSW, Vic, WA only	120 mL per 100 L water per 1000 m <sup>2</sup> OR 1.2 L per 1000 L water per ha	Spray when pests are first seen. Repeat every 7-10 days as required. DO NOT irrigate within 24 hours of treatment.
	Grass Caterpillar, Sod Webworm	Qld only		
<b>Tobacco</b>	Green Vegetable Bug		1.3 L/ha	Apply when pests are first seen and repeat if necessary.
<b>Lawn, Turf</b>	Lawn Grub, Lawn Armyworm	Qld, NSW, WA, NT only	12 mL/10 L/100 m <sup>2</sup>	Apply with a sprayer or watering can as soon as pest is present. Repeat treatment as new hatchings occur.

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

**WITHHOLDING PERIOD**

**EDIBLE CROPS: DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION.**

**PASTURES, FORAGE CROPS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 2 DAYS AFTER APPLICATION.**

**DRIED FRUIT: DO NOT USE TREATED PRODUCE FOR HUMAN CONSUMPTION OR FOR STOCK FOOD WITHIN 2 DAYS OF TREATMENT.**

### GENERAL INSTRUCTIONS

Before opening, carefully read Directions For Use, Precautionary Statements, Safety Directions and First Aid Instructions. This product is an insecticide specially formulated for the control of chewing insects in field crops. Application to actively feeding insects results in rapid knockdown and control. This product will not injure plants when applied in accordance with the directions on this label, however, this product is phytotoxic to some varieties of sorghum including Alpha and Pioneer 846 varieties. A check should be made before applying this product to a sorghum crop as some new varieties may also be affected. Lepidex may be subject to alkaline hydrolysis under high pH conditions. If using water with a pH of 8 or greater add LI700 acidifying surfactant at 100mL/100L to reduce the pH. LI700 should be mixed in the water before adding Lepidex.

### MIXING/APPLICATION

Add the required quantity of Lepidex to water in the spray vat while stirring or with agitators in motion. Use immediately after mixing.

#### 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.

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:

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÷500L=3)
4. If the dilute label rate is 10mL/100L, then the concentrate rate becomes 3 x 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 Lepidex 500 is a Group 1B Insecticide.

Some naturally occurring insect biotypes resistant to Lepidex 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 Lepidex 500 or other Group 1B insecticides are used repeatedly. The effectiveness of Lepidex 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 Lepidex 500 to control resistant insects.

Lepidex 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.

#### AERIAL APPLICATION

Spraying technique should be "placement" rather than "drift" to ensure crop penetration. The swath width should be chosen to give uniform coverage. For best results spray in the evening or early morning and avoid thermals and still air during the day.

#### RICE - BLOODWORM CONTROL

Apply at sowing time or within 24 hours of sowing to flooded bays where the water depth is 150 mm or less. Use the higher rate when the water depth is greater than 150 mm or where high amounts of organic matter are present. Bays should be flooded at least 3 days prior to application to ensure maximum hatching of bloodworm. When organic matter content of bays is unavoidably high reduce water level and monitor results of spraying. Re-apply as indicated by pest population.

### **RICE SEED FOR AERIAL SOWING**

For bloodworm control: mix product with water then pour evenly over pre-germinated seed equivalent to that needed for sowing one hectare in the hopper of the aircraft or seed auger. The treated seed should be sown within one hour of treatment to avoid possible damage to the seed. Treated seed is only to be used for sowing. Treated seed is NOT to be used as food for humans or poultry or any other animal. DO NOT allow treated seed to contaminate grain intended for human or animal consumption. Treated seed is NOT to be fed, or otherwise exposed to wild or domestic birds. DO NOT contaminate areas other than rice-growing bays with treated seed. Any treated seed not used for sowing is to be destroyed.

### **COMPATIBILITY**

Lepidex is compatible with most commonly used insecticides and fungicides including Antracol<sup>+</sup> and Mobait<sup>®</sup> Insecticide Spray Additive. This compatibility is based on worldwide experience and is considered correct. However, as changes in climate conditions can alter the sensitivity of plants to mixture of sprays, we accept no responsibility for the behaviour of such mixtures.

### **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

### **PROTECTION OF LIVESTOCK**

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.

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

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

### **STORAGE AND DISPOSAL**

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spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves, goggles, impervious footwear and half piece respirator with combined dust and gas cartridge (canister). If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and 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, goggles, respirator and if rubber wash with detergent and warm water, and contaminated clothing.

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