

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

CHEMAG  
DIMETHOATE  
INSECTICIDE

Active Constituent: 400g/L DIMETHOATE  
(An anticholinesterase compound)  
Solvent: 564g/L HYDROCARBON LIQUID

**GROUP 1B INSECTICIDE**

Control of a wide range of pests that attack Bananas, Berry Fruits, Cereals, Citrus, Cotton, Grapes, Legume Crops, Lucerne & Medic Pastures, Peanuts, Pome and Stone Fruits, Oil Seeds, Ornamentals, Tropical Fruit and Vegetables. This product can be used as a Seed Treatment for certain crops & as a Post Harvest Dip for Quarantine purposes.

As specified in the Directions for Use Table.  
IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT.

20 LITRES

NRA APPROVAL: 51545/1100

The Expiry Date of 24 months (2 years)  
From Date of Manufacture is applicable  
Only if the product is stored below 30°C

Batch Number:

Date of Manufacture:

Expiry                      Date if stored below 30°C  
                                    If stored at or above 30°C

ChemAg Pty Ltd ACN 009 234 691  
Suite 12, 11 Preston Street Como Western Australia 6152  
Tel: (08) 9367 1799 Fax: (08) 9368 6144

**GENERAL INSTRUCTIONS****READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT.**

**MIXING:** ChemAg Dimethoate can be poured directly into the water in the spray vat with agitators in operation. If combining with another product, mix each product separately in a small quantity of water first before adding to the vat. The addition of non-ionic surfactant will help disperse the product when applied in low volumes of water.

**COMPATIBILITY:** ChemAg Dimethoate is compatible with most other insecticides, fungicides, herbicides and foliar fertilisers. It must not be combined with highly alkaline products such as lime sulphur or Bordeaux mixtures. As formulations are subject to change, always check the compatibility of mixes at the intended use ratios in a small container prior to use. Do not mix with more than one product at any time. The use of any mixture, is entirely at the users risk.

**POST HARVEST DIPPING:** Queensland authorities advise growers using dimethoate dips, to change their solution every day to comply with quarantine requirements. Users should ensure they read and comply with state guidelines on the correct dimethoate dipping procedures for fruit.

**INSECTICIDE RESISTANCE WARNING: GROUP 1B INSECTICIDE**

For insecticide resistance management Chemag Dimethoate Insecticide is a Group 1B Insecticide. Some naturally occurring insect biotypes resistant to Chemag Dithethoate 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 Chemag Dimethoate or Group 1B insecticides are used repeatedly. The effectiveness of Chemag Dimethoate on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Chemag Pty Ltd accepts no liability for any losses that may result from the failure of Chemag Dimethoate to control resistant insects. Chemag Dimethoate may be subject to specific resistance management strategies. For further information contact your local Supplier, Chemag Pty Ltd representative or local agricultural department agronomist.

**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 dams, ponds, waterways or drains with the chemical or used container.

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

Do not apply as a spray to apricots, early peach varieties or loquats. Do not apply to Meyer Lemons, Seville oranges or cumquats.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area. Protect from direct sunlight and temperatures above 40°C. If storing for periods more than 2-3 months avoid temperatures above 30°C. The product is stable for 1 year if stored at temperatures of 30°C or above. The product is stable for 2 years if stored below 30°C.

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 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.

**Refillable Containers:** Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

**DISPOSAL OF SPENT FRUIT DIP:** Add 3kg either slaked, hydrated or quick lime per 1000 litres of dip solution in a separate vessel to the dipping tank. Leave that mix for one or two hours to neutralise the chemical component. The inactivated mix can then be poured into a trench or sprayed on grass. Do not flush to rivers, creeks or drain ways.

**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. Do not inhale spray mist. When opening the container and preparing spray wear cotton overalls buttoned to the neck

and wrist, and washable hat, and elbow length PVC gloves and face shield and impervious footwear. When using the prepared spray wear cotton overalls buttoned to neck and wrist, and washable hat, and elbow length PVC gloves and impervious footwear and half-face respirator with combined dust and gas cartridge. 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, face shield and respirator facepiece and contaminated clothing.

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone: 131126).

**If swallowed:** Give one atropine tablet every 5 minutes until dryness of the mouth 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.

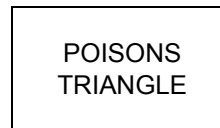
For additional information refer to **Material Safety Data Sheet**. (available from ChemAg Pty Ltd).

#### CONDITIONS OF SALE

ChemAg Pty Ltd accepts responsibility of the consistent quality of this product; however since application of this product is beyond the control of ChemAg Pty Ltd and since all conditions of application cannot be seen, ChemAg Pty Ltd accepts no responsibility whatsoever for any injury, damage, loss or other results following the use of this product whether used in accordance with directions or not; subject to any overriding statutory provision and provided that such liability under those provisions shall be limited to the replacement of the goods as supplied or the rendering again of the services that are provided. The buyer accepts and uses this material subject to these conditions.

#### NRA APPROVAL:

<b>UN 3017</b>	<b>ORGANOPHOSPHOROUS, PESTICIDES, LIQUID, TOXIC, FLAMMABLE, N.O.S.</b>
<b>PG II</b>	
<b>3WE</b>	
<b>In case of emergency Dial 000 Police or Fire Brigade</b>	
	SPECIALIST ADVICE IN EMERGENCY ONLY
	ChemAg Pty Ltd <b>(08) 9367 1799</b>



Batch No:  
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ChemAg Pty Ltd  
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Fax: (08) 9474 4676

**DIRECTIONS FOR USE****RESTRAINT: DO NOT apply to any non-food tree crop or plantation (including Eucalyptus spp.) by air.**

<b>CROP</b>	<b>PESTS CONTROLLED</b>	<b>STATE</b>	<b>RATE</b>	<b>WITHHOLDING PERIOD</b>	<b>CRITICAL COMMENTS</b>
AVOCADO	Queensland Fruit Fly	Qld & NT only	75mL/100L as an overall spray	7 days	Apply as pest populations indicate
BANANAS	Mites Silvering Thrips	Qld & NT only	75mL/100L of water	7 days	Apply in at least 1000L of water per ha when pests appear. This product will not control OP resistant mites.
BERRY FRUITS Blueberries  Strawberries	Aphids Jassides  Spider Mites Thrips	All States	75mL/100L or  800mL/ha	7days (Blueberries)  1day (Strawberries)	Apply when pests first appear and repeat at 3 weekly intervals or as necessary. Some strains of Spider Mites are resistant to organophosphorus compounds.
CEREALS	Blue Oat Mite	Qld, NSW only	90mL/ha	4 weeks (harvest)  1 day (grazing)	Apply when pests first appear.
	Brown Wheat Mite	Qld only	55-85mL/ha		Apply 3-5 weeks after the commencement of autumn rains or when outbreak occurs. Use the higher rate in cold weather. Do not spray on bare ground. Allow the crop to emerge before application. Boom spray - apply in 50-100L/ha of water. Aircraft and misting machines - apply in 20-40L of water per ha.
	Lucerne Flea	NSW, Vic, Tas, SA & WA only			
	Redlegged Earth Mite	Vic, Tas, SA & WA only			
		NSW only	85 mL/ha		
	Wingless Grasshopper	All States	75mL/100L of water or 750mL/ha	Apply when grasshoppers appear and re-apply as required. In addition to the infested area, spray a band of about 20 metres around areas to be protected.	

CITRUS FRUIT (except Meyer Lemons, Seville Oranges and Cumquats)	Aphids Thrips	All States	75mL/100L of water	7 days	Apply when pests appear and repeat as necessary.
	Bronze Orange Bug	NSW, Vic, Qld, SA & WA only			Apply when pests appear and repeat as necessary
	Mediterranean Fruit Fly	Vic & WA only	150mL/100 L of water		Apply 7 weeks and 5 weeks before harvest. If harvesting is delayed a third spray may be required. WA only: Apply approx 6 weeks before fruit ripens.
		NSW only			
	Queensland Fruit Fly	NSW, Vic, Qld & NT & SA only	75mL/100L of water		Apply when grasshoppers appear and re-apply as required. In addition to the infested areas.
Wingless Grasshopper	All States	75mL/100L of water or 750mL/ha			
COTTON	Aphids Spider Mites Thrips	NSW only	350mL/ha	2 weeks	Apply when pests appear and repeat as necessary.  This product will not control OP resistant mites.
	Jassids	Qld only	500mL/ha		
	Green Vegetable Bug	NSW only	350mL/ha		
		Qld only	375mL/ha		
	Broken Back Bug Brown Smudge Bug Green Mirids Rutherglen Bug	Qld & NSW only	500mL/ha  340- 500mL/ha		Apply when the insects are present. Repeat application of the spray as necessary to control the insects. Use the higher rates under conditions of heavy insect pressure.
GRAPES	Queensland Fruit Fly	Qld only	75mL/100L as an overall spray	7 days	Apply as pest populations indicate.

LEGUME CROPS	Thrips	NSW only	800mL/ha	2 weeks	Two treatments between pre-bloom (just before flower bud formulation) and pod initiation may be
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Adzuki Beans Cowpeas Mung Beans Navy Beans Pigeon Peas					necessary. If infestation is severe or prolonged, apply the first spray at the pre-blooms stage and the second spray at full flowering. Use sufficient water to give good coverage.	
Lupins	Green Peach Aphid	WA only			Apply when flowering spikes carry 20 to 50 aphids and repeat as necessary.	
	Blue Green Aphid Cowpea Aphid		500mL/ha			
LUCERNE & MEDIC PASTURES	Blue Green Aphid Spotted Alfalfa Aphid	WA only	150- 225mL/ha	1 day (Rates up to 250mL/ha)	Apply when any aphids begin building up on the stems. Apply at the same rate as soon as possible after cutting the lucerne stand if and when infestation occurs. Repeat if necessary VICTORIA: Spray when 20-40 aphids appear per stem on mature plants (or 1-2 per seedling). Spotted Alfalfa Aphids are resistant to some organophosphates in some areas. Consult your District Agronomist before spraying.	
		Qld, NSW, Vic only	150mL/ha			
		Tas only	375mL/ha			
	Blue Green Aphid	SA only	250- 375mL/ha			Apply when aphids start to build up on leaves and stem. Spray when bees are not actively foraging. Use the higher rate in dense irrigated stands.
	Bean Fly	Vic, SA, WA & Tas only	340mL/ha			Apply when pests appear and repeat as necessary VICTORIA: Spray when 20-40 aphids appear per stem on mature plants (or 1-2 per seedling). Consult you District Agronomist before spraying.
	Blue Oat Mite	NSW only	90mL/ha			
	Leaf hoppers (Jassides)	Qld, Vic, SA, WA & Tas only	350mL/ha			
	Pea Aphid	NSW & Vic only	150mL/ha			

	Lucerne Flea	WA, Vic, Tas & SA only	55-85mL/ha		Apply 3-5 weeks after commencement of autumn rains or when outbreak occurs. Use higher rate in cold weather or on mature pastures. Do not spray on bare ground. Allow the lucerne to emerge before application. BOOM SPRAY: Apply in 50-100L/ha water AIRCRAFT & MISTING MACHINES: Apply in 20-40L of water per ha.
	Redlegged Earth Mite	WA, Vic, Tas & SA only			
		NSW only	85mL/ha		
	Wingless Grasshoppers	All States	75mL/100L of water or 750mL/ha		Apply when grasshoppers appear and re-apply as required. In addition to the infested area, spray a band of about 20 metres around areas to be protected.
OIL SEED CROPS Linseed Rapeseed Canola	Lucerne Flea	WA only	40-55mL/ha	2 weeks	Apply 3-4 weeks after commencement of autumn rains or when outbreak occurs. Use higher rate in cold weather. Do not spray on bare ground. Allow the crop to emerge before application. BOOM SPRAY: Apply in 50-100L/ha of water AIRCRAFT & MISTING MACHINES: Apply in 20-40L of water per ha.
		NSW, SA, Vic, Tas only	55-85mL/ha		
	Redlegged Earth Mite	WA, Vic, Tas, SA only		2 weeks	
		NSW only	85mL/ha		
	Wingless Grasshopper	All States	75mL/100L of water 750mL/ha		
Green Vegetable Bug Jassids			350mL/ha		Apply when insects appear.
Sunflower	Green Vegetable Bug Jassids	NSW, Tas, SA & WA only	340mL/ha		
		Qld only	350mL/ha		

NUT CROPS Peanuts	Aphids Green Vegetable Bug Jassids Peanut Mite Thrips	NSW & Qld only	350mL/ha	7 days	Apply when pests appear.
ORNAMENTALS (Not including: Begonias Chrysanthemums Gloxinias Liquid Amber          Duboisia	Aphids Azalea Lace Bug Green Vegetable Bug Greenhouse White Fly Jassids Leaf Hoppers Leaf Miners Rutherglen Bug Spider Mites Thrips	All States	75mL/100L of water		Apply when pests first appear and repeat as necessary. This product will not control OP resistant mites. Some strains of Spider Mites are resistant to organophosphorus compounds.
	Bronze Orange Bug	Qld, SA NSW, Vic & WA only			
	Woolly Aphid	NT, Vic, SA, WA & Tas only			
	Wingless Grasshoppers	All States	75mL/100L of water or 750mL/ha		Apply when grasshoppers appear and re-apply as required. In addition to the infested area, spray a band of about 20 metres around areas to be protected.
	Thrips	Qld only	75mL/100L as an overall spray		Apply every 7-10 days or as pest populations indicate.
TREES Eucalypts Flame Trees Kurrajongs Umbrella Tree	Jarrah Leaf Miner Kurrajong Leaf Miner Psyllids	NSW & WA only	25mL/8L of water		Apply in early June for control of Jarrah Leaf Miner and in early spring for Psyllids. Trunk injection method may be used on large trees. Bore holes in tree trunk and fill with 1:1 mixture of this product and water. Apply in late January as above for Kurrajong Leaf Miner.

POME FRUIT Apples  Pears Quinces (Not Loquats)	Queensland Fruit Fly	Vic & Qld only	75mL/100L of water	7 days	Apply 2 full cover sprays 7 weeks and 5 weeks before harvest. A third spray may be required if harvest is delayed. WA ONLY: Apply about 6 weeks before the fruit ripens. Re-apply at fortnightly intervals. The last spray should be made one week before the fruit ripens.
		NSW only	150mL/100 L of water		
	Mediterranean Fruit Fly				
		Vic & WA only			
	Aphids Thrips	All states			
	Wingless Grasshopper	All States	75mL/100L of water.		
	Woolly aphid	NSW, SA Vic, Tas, WA only			Apply when pests appear and repeat at 3 weekly intervals.
STONE FRUIT Not including: Apricots or early Peach varieties	Queensland Fruit Fly	NSW, SA, Vic & Qld only	75mL/100L of water	7 days	Apply 2 full cover sprays 4 weeks and 2 weeks before picking. A third spray may be required if harvest is delayed. WA ONLY: Apply about 6 weeks before the fruit ripens. Re-apply at fortnightly intervals. The last spray should be made one week before this fruit ripens.
	Mediterranean Fruit Fly	NSW, Vic & WA only			
	Aphids Thrips	All States			
	Wingless Grasshopper		75mL/100L of water or 750mL/ha		
		Woolly Aphid	NSW, Vic, Tas, SA & WA only		
					Apply when pests appear and repeat at 3 weekly intervals.

TROPICAL FRUITS Custard Apple	Queensland Fruit Fly	Qld & NT only			Apply every 7-14 days as required during fruit ripening. Usually required only in late season; harvesting at mature green stage overcomes the problems to some extent.
Mangoes Papaw Passionfruit	Mediterranean Fruit Fly	NSW, Vic, WA only	75mL/100L of water	7 days	Apply as a cover spray at first sign of infestation.
	Queensland Fruit Fly	Qld, NSW, NT only			
VEGETABLES Beans, Peas	Bean Fly	All States	75mL/100L of water	7days (harvest)  1day (grazing)	Apply at 3 and 7 days after crop emergence and then at weekly intervals until blossom.
	Aphids Green Vegetable Bug Jassids Spider Mites Thrips		75mL/100L or 800mL/ha		Apply when insects appear and repeat as necessary. Some strains of Spider Mites are resistant to organophosphorus compounds.
	Redlegged Earth Mite	NSW, Vic, SA, Tas & WA only			
	Cowpea Aphid	NSW only	350 to 650mL/ha		Apply when pests appear. Use the higher rate in cold weather.
Capsicums	Aphids Green Vegetable Bug Jassids Thrips Tomato Mite	All States	75mL/100L or 750mL/ha	7 days	Apply when pests first appear and repeat at 3 weekly intervals or as required.
Cucurbits Including: Cucumber Squash Zucchini	Aphids Green Vegetable Bug Jassids Thrips		75mL/100L of water or 750mL/100 L per ha low volume	1 day	
	Cucumber Fly	Qld & NSW only			

Potatoes	Aphids	All States	75mL/100L		Apply when insects appear.
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	Green Vegetable Bug Jassids Thrips				
Tomatoes	Aphids Green Vegetable Bug Jassids Thrips			7days	
	Bryobia Mite	Vic, SA, Tas & WA only	60mL/100L		
	Mediterranean Fruit Fly	NSW, Vic &	75mL/100L		As for POME FRUITS. NSW ONLY: As for STONE FRUITS
	Queensland Fruit Fly	WA only	75mL/100L of water		Two applications as thorough fruit and foliage spray 4 weeks and 2 weeks before picking. A third spray may be required if harvest is delayed.
		Qld only	75mL/100L of water or 850mL/ha		
		NSW, Vic, WA & Qld only	MISTING MACHINES : Apply 850mL in the required water to cover 1ha.		At least 70 litres per ha should be applied.
Tomato Mite	NSW, Vic, SA, Tas & WA only	60mL/100L	Apply when insects appear.		

Vegetables including:	Aphids Green Vegetable Bug	All States	75mL/100L of water or	Apply when pests first appear and repeat at 3 weekly intervals or as required. This product will not
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Leafy vegetables Cole crops Lettuce Silver Beet Celery And Root vegetables including Onions Carrots Beetroot Parsnips	Jassids Thrips		800mL/ha	7 days	control OP resistant mites.
	Plant bugs including: Green Vegetable Bug				Apply when pest damage first appears and repeat as necessary.
	Leafmining Fly	NSW only			Apply when grasshoppers appear and re-apply as required. In addition to the infested area, spray a band of about 20 metres around areas to be protected.
	Wingless Grasshoppers	All States	75mL/100L of water or 750mL/ha		
	Redlegged Earth Mite (Root vegetables only)	NSW, Vic, Tas, SA & WA only	75mL/100L of water		Apply when pests first appear at 3 weekly intervals or as required.

**SEED DRESSING RECOMMENDATIONS**

SEED TYPE	PESTS CONTROLLED	STATE	RATE/100KG SEED	CRITICAL COMMENTS
Clover Seed	Lucerne Flea	NSW, Vic, Tas, SA & WA only	300mL	Add a small quantity of water (1-2L/100kg seed) and mix thoroughly in a drum or cement mixer. The addition of a non-ionic wetting agent will give better coverage and penetration. Sow seeds as soon as possible after treatment. Do not use this product when it is necessary to inoculate seed.
Linseed	Redlegged Earth Mite		330mL	
Rapeseed (Canola seed)			600mL	
Lucerne seed			150mL	
Pea seed				

**POST HARVEST DIPPING RECOMMENDATIONS - Note: This is a quarantine treatment only.**

FRUIT & VEGETABLES	PESTS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Apples Apricots Avocados Bananas Cactus Fruit Chili Custard Apples Eggplant Feijoas Figs Guavas Kiwifruit Loquats Nectarines Papaws Passionfruit Peaches Pears Pepinos Persimmons Plums Pomegranates Quinces Tamarillos	Mediterranean Fruit Fly Queensland Fruit Fly	NSW, Qld & NT only	100mL/ 100L of water	DIPPING: Immerse product in emulsion for 1 minute or according to the requirements of the importing state or country. TOPPING UP (400ppm dimethoate emulsion only): Top up with a separately prepared 400ppm (100mL/100L) emulsion. REINFORCEMENT (400ppm dimethoate emulsion only): After each week, add 3mL of product/100L of dip emulsion.  NOTE: 1) Refer also to Refinate R6/Feb 83 (Agdex 201/681) "FRUIT & VEGETABLES -Stability of dimethoate in dip" 2) 400ppm is the concentration required for fruit fly susceptible produce destined for interstate markets. For any other destinations, the requirements may differ (eg. fruit for export to New Zealand has to be treated at 500ppm concentration); check with the relevant authorities.
Mangoes	Darwin Fruit Fly	NT only		
Cherries	Queensland Fruit Fly	WA & Vic only	50mL/ 100L	Dip fruit for a minimum of 30 seconds
Capsicums Tomatoes		Qld & NT only	100mL/ 100L	ON-LINE POST HARVEST SPRAY Apply thoroughly as an on-line post harvest spray according to the requirements of the importing state or country. TOPPING UP (400ppm dimethoate emulsion only): Top up with separately prepared 400ppm (100mL/100L) emulsion. REINFORCEMENT (400ppm dimethoate emulsion only): After each week, add 3mL of 400g/L product/100L of dip emulsion. See notes (1) and (2) above. DIPPING: Immerse product in emulsion for 1 minute according to the requirements of the importing state or country. Alternatively, apply thoroughly as an on-line post harvest spray.

				<p>TOPPING UP (400ppm dimethoate emulsion only):  Top up with a separately prepared 400ppm (100mL/100L) emulsion.  REINFORCEMENT (400ppm dimethoate emulsion only):  After each week, add 3mL of 400g/L product/100L of dip emulsion.  See notes (1) and (2) above.</p>
Cherry Tomatoes		NT only		

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

**WITHHOLDING PERIOD**

**CEREALS, FORAGE CROPS, PEAS, LUCERNE & MEDIC PASTURES:**

**(Rates up to 250mL/ha):** DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION.

**(Rates 250mL/ha and above):** DO NOT APPLY LATER THAN 7 DAYS BEFORE HARVEST.

**CUCURBITS & STRAWBERRIES:** DO NOT APPLY LATER THAN 1 DAY BEFORE HARVEST.

**AVACADOS, BANANAS, BLUEBERRIES, CITRUS FRUIT, GRAPES, PEANUTS, POME & STONE FRUIT, TROPICAL FRUITS &**

**VEGATABLES (EXCEPTCUCURBITS):** DO NOT APPLY LATER THAN 7 DAYS BEFORE HARVEST.

**CEREALS:** DO NOT APPLY LATER THAN 4 WEEKS BEFORE HARVEST.