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### **CAUTION**

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



# Pendimethalin 440

### **HERBICIDE**

**ACTIVE CONSTITUENT: 440g/L PENDIMETHALIN** SOLVENT: 501g/L HYDROCARBON LIQUID

GROUP

3 HERBICIDE

For the control of wireweed, annual grasses (including ryegrass) and certain broadleaved weeds in various crops as shown in the **DIRECTIONS FOR USE table** 

IMPORTANT: Read this booklet before use.

APVMA Approval No: 89253/124173

#### AIRR APPARENT PTY LTD

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#### DIRECTIONS FOR USE

#### Restraints

Do NOT sow sensitive summer crops such as sorghum and millets within 12 months of application of Apparent Pendimethalin 440 Herbicide.

Do NOT apply to a poorly prepared seedbed.

Do NOT use Apparent Pendimethalin 440 Herbicide mixed with atrazine on heavy clay soils.

Do NOT apply Apparent Pendimethalin 440 Herbicide where waterlooging is likely to occur.

Pre-plant Application (Incorporated by the Sowing Process)				
CROP	WEED CONTROLLED	STATE	RATE/TREATED HA	
Barley and wheat	Annual Ryegrass ( <i>Lolium rigidum</i> ), Wireweed	All States	1.35L/ha	
(Including crops with	(Polygonum aviculare), Suppression of Wild			
undersown lucerne)	Oats (Avena spp.)	O th NIOW	4.05 +- 0.051 //	
Canola (Including crops with undersown lucerne)	Suppression only of Silver Grass (Vulpia spp.)	Southern NSW, ACT, VIC, SA, WA,	1.35 to 2.25L/ha 1.5 to 2.25L/ha	
with undersown ideelife)	Suppression only of Silver drass (Vulpia spp.)	TAS only	1.0 to 2.20L/11a	
		IAS UTILY		
Chickpeas, Faba Beans,	Annual Ryegrass ( <i>Lolium rigidum</i> ), Wireweed	Southern NSW,	1.5 to 2.25L/ha	
Field Peas, Lentils,	(Polygonum aviculare), Suppression only of	ACT, VIC, SA, WA,		
Lupins, Safflower	Silver Grass ( <i>Vulpia</i> spp.), Suppression of	only	4610 1 1 1 1	
Lupins	Wild Oats (Avena spp.)	WA only	1.5L/ha plus simazine at 500gai/ha	
		NSW, ACT, VIC,	1.5L/ha plus simazine at	
		SA only	1.5kgai/ha	
		57.5,	110119417114	

#### CRITICAL COMMENTS

### Barley and wheat (Including crops with undersown lucerne):

Where full (double) incorporation is impractical and where the seedbed tilth is fine and free of large stones and trash, apply Apparent Pendimethalin 440 Herbicide up to 24 hours prior to sowing. Incorporate with the combine set to sow to a depth of 3-5cm. Use trailing harrows. (Refer to "Incorporation" under the heading General Instructions). In minimum till situations, only light incorporation will occur due to soil displaced by the points. Trailing harrows should be used to provide better incorporation and weed control. Avoid heavy trash situations which may result in uneven application and incorporation, leading to reduced weed control. Wheat and barley seed must be sown at least 1cm beneath the chemically treated band or reduced emergence may occur. Refer to "Cereal Seed Dressings" and "Weather Conditions at Planting" under GENERAL INSTRUCTIONS, for further information on emergence.

**CAUTION:** Ensure thorough incorporation to maximise safety to undersown lucerne.

Canola (Including crops with undersown lucerne): Apply Apparent Pendimethalin 440 Herbicide up to 24 hours prior to sowing. Ensure Apparent Pendimethalin 440 Herbicide is well incorporated. Sow canola with a seeding depth of 1-3cm, at the appropriate depth for conditions.

Canola seed can be placed within the treated band. Incorporate with the combine set to sow the seed below the chemical band. DO NOT apply to canola post plant pre-emergence.

Use the higher rates on medium to heavy textured soils and the lower rates on light textured soils. NOTE: Development in waterlogged conditions after the application of Apparent Pendimethalin 440 Herbicide may retard the emergence of canola. If wild oats are expected to be a problem use a wild oat herbicide. Application to heavier soil types that have poor structural characteristics or are poorly worked may result in insufficient and uneven incorporation and unsatisfactory weed control. Heavy soils that are cloddy or have a surface crust or surface seal should be avoided. Attempting to incorporate Apparent Pendimethalin 440 Herbicide when soils are very wet or very dry may also result in insufficient mixing and therefore poor

**CAUTION:** Ensure thorough incorporation to maximise safety to undersown lucerne.

Where full (double) incorporation is impractical and where the seedbed tilth is fine and free of large stones and trash, apply Apparent Pendimethalin 440 Herbicide or in the case of lupins Apparent Pendimethalin 440 Herbicide plus simazine lup to 24 hours prior to sowing. Incorporate with the combine set to sow to a depth of 3-5cm. Use trailing harrows. (Refer to "Incorporation" under the heading General Instructions). Application to heavier soil types that have poor structural characteristics or are poorly worked may result in insufficient and uneven incorporation and unsatisfactory weed control. Heavy soils that are cloddy or have a surface crust or surface seal should be avoided.

Attempting to incorporate Apparent Pendimethalin 440 Herbicide when soils are very wet or very dry may also result in insufficient mixing and therefore poor weed control. Refer to "Weather Conditions at Planting" under GENERAL INSTRUCTIONS, for further information on emergence.

If wild oats are expected to be a problem use a wild oat herbicide.

Use the higher rates on medium to heavy textured soils and the lower rate on light textured soils.

weed control.

### Pre-plant Incorporation (Double Incorporation):

**Note:** For all crops listed in the double incorporation table below:

Incorporate Apparent Pendimethalin 440 Herbicide into the soil within 24 hours of application, Refer to the notes on incorporation under the heading General Instructions. Where a range of application rates is provided, use the higher rate on heavy textured soils or those high in organic matter and the lower rate on light to medium textured soils. Application to soil types with poor structural type characteristics or that are poorly worked may result in insufficient or uneven incorporation and, subsequently less than satisfactory weed control. Heavy soils, which are cloddy or have a surface crust or surface seal, are to be avoided. Attempting to incorporate Apparent Pendimethalin 440 Herbicide when soils are very wet or very dry may also result in poor weed control due to insufficient mixing. Refer to the General Instructions, especially "Cereal Cond Drannings" and "Monthly Conditions at Dianting" for further information on amorganic

0-4		O M/ I T- I- I - A		OLD MOW
CROP		WEED CONTROLLED		STATE
Seed Dressings	anu	weather Conditions at Planting	for further informati	on on emergence.

CROP	WEED CONTROLLED	STATE	RATE/TREATED HA
Cotton	See Weed Table A	QLD, NSW only	2.25L/ha
Soybeans, Peanuts, Navy		QLD, NSW, NT only	1.9 to 2.5L/ha
Beans, Cow Peas, Mung			
Beans, Pigeon Peas			
Sunflowers		QLD, NSW, VIC	
		SA only	
Wheat and Barley	Annual ryegrass ( <i>Lolium rigidum</i> ), Wireweed ( <i>Polygonum aviculare</i> ), Suppression of Wild Oats ( <i>Avena</i> spp.)	All States	900mL/ha
Field Peas	-	Southern NSW,	1.5L/ha
11010 1 000		VIC, TAS, SA, WA	1102/114
		only	
Chickpeas, Faba Beans,	1	QLD, northern	1.9 to 2.5L/ha
Lupins, Safflower		NSW, TAS* only	

#### CRITICAL COMMENTS

Use a combine with trailing harrows and chain or offset or tandem discs or Lilliston cultivators, set to work to a depth of 2-5cm. Subsequent planting operations in irrigated cotton may remove the Apparent Pendimethalin 440 Herbicide from hills leaving an untreated band over the row, requiring a further application of Apparent Pendimethalin 440 Herbicide or other herbicides in that band. When the seedbed is rough, a second incorporation is necessary.

Apparent Pendimethalin 440 Herbicide may be applied by aerial or ground rig. In the Macquarie Valley area, only apply by air when ground is too wet for ground application.

Use weighted harrows at 8-13km/hour followed by a cross working with a combine set to work at a depth of 2-5cm at 8-13 km/hour. Wheat and barley seed must be sown approximately 1cm beneath the chemically treated band or reduced emergence may occur. If wild oats are expected to be a problem use a wild oat herbicide.

Use weighted harrows at 8-13km/hour followed by a cross- working with a combine set to work at a depth of 2-5cm at 18-13km/hour. Seed should be sown below the chemical band. Use cover harrows behind the combine. Use a wild oat herbicide if wild oats are expected to be a problem.

\*Lupins: In Tasmania, use only on the species Lupinus angustifolius. DO NOT use on Lalbus.

Where full (double) incorporation is impractical and where the seedbed tilth is fine and free of large stones and trash. apply Apparent Pendimethalin 440 Herbicide or in the case of lupins Apparent Pendimethalin 440 Herbicide plus simazine lup to 24 hours prior to sowing, Incorporate with the combine set to sow to a depth of 3-5cm. Use trailing harrows, (Refer to "Incorporation" under the heading General Instructions). Application to heavier soil types that have poor structural characteristics or are poorly worked may result in insufficient and uneven incorporation and unsatisfactory weed control. Heavy soils that are cloddy or have a surface crust or surface seal should be avoided.

Attempting to incorporate Apparent Pendimethalin 440 Herbicide when soils are very wet or very dry may also result in insufficient mixing and therefore poor weed control. Refer to "Weather Conditions at Planting" under GENERAL INSTRUCTIONS, for further information on emergence.

If wild oats are expected to be a problem use a wild oat herbicide.

Use the higher rates on medium to heavy textured soils and the lower rate on light textured soils.

CROP	WEED CONTROLLED	STATE	RATE/TREATED HA
Wheat and Barley	Annual ryegrass (Lolium rigidum), Wireweed	All States	1.4L/ha
Canola (Including crops	(Polygonum aviculare), Suppression of Wild	Southern NSW,	1.4 to 2.25L/ha
with undersown lucerne)	Oats (Avena spp.)	VIC, TAS, SA, WA	
	Suppression only of Silver Grass (Vulpia spp.)	only	1.5 to 2.25L/ha
Chickpeas, Faba Beans,	Annual ryegrass (Lolium rigidum), Wireweed	Southern NSW,	1.5 to 2.25L/ha
Safflower, Lupins, Field	(Polygonum aviculare)	VIC,	
Peas	Suppression only of Silver Grass (Vulpia spp.)	SA, WA only	
Lupins	and Wild Oats (Avena spp.)	WA only	1.5L/ha plus 560g/ha
	, , , , , ,		simazine 900 WG or 1L/ha
			flowable simazine
		NSW, VIC, SA only	1.5L/ha plus 1.7kg/ha
			simazine 900WG or 3L/ha
			flowable simazine
DOCT DI ANT DDE EMI	FROM A PRINCE A PRINC	CDD AVINC). NON	MECHANICAL INCORDOR
	ERGENCE APPLICATION (OVERALL BAND	SPRAYING): NUN-	MECHANICAL INCURPUR

#### CRITICAL COMMENTS All crops (except canola):

Where full (double) incorporation is impractical and where the seedbed tilth is fine and free of large stones and trash, apply Apparent Pendimethalin 440 Herbicide, or in the case of lupins Apparent Pendimethalin 440 Herbicide plus simazine, up to 24 hours prior to sowing. Incorporate with the combine set to sow to a depth of 3-5cm. Use trailing harrows. (Refer to "Incorporation" under the heading General Instructions). Wheat and barley seed must be sown at least 1cm beneath the chemically treated band or reduced emergence may occur. If wild oats are expected to be a problem use a wild oat herbicide.

Refer to Critical Comments on previous page plus:

Canola: Apply Apparent Pendimethalin 440 Herbicide up to 24 hours prior to sowing. Ensure Apparent Pendimethalin 440

Herbicide is well incorporated. Sow canola with a seeding depth of 1-3cm, at the appropriate depth for conditions. Canola seed can be placed within the treated band. Use the higher rates on medium to heavy textured soils and the lower rates on light textured soils. **NOTE:** Development in waterlogged conditions after the application of Apparent Pendimethalin 440 Herbicide may retard the emergence of canola. If wild oats are expected to be a problem use a wild oat herbicide. Application to heavier soil types that have poor structural characteristics or are poorly worked may result in insufficient and uneven incorporation and unsatisfactory weed control. Heavy soils that are cloddy or have a surface crust or surface seal should be avoided. Attempting to incorporate Apparent Pendimethalin 440 Herbicide when soils are very wet or very dry may also result in insufficient mixing and therefore poor

**CAUTION:** Ensure thorough incorporation to maximise safety to undersown Lucerne.

Use the lower rate when canola is undersown with lucerne DO NOT apply to canola post plant pre-emergence.

ION

weed control.

CROP	WEED CONTROLLED	STATE	RATE/TREATED HA
Cotton	See Weed Table B	QLD, NSW only	3.4L/ha
Sunflowers		QLD, NSW, SA only	
Maize		QLD, NSW, NT only	3.4L/ha
	See Weed Table C		2.25L/ha plus 1.1kg/ha atrazine 900WG or 2L/ha flowable atrazine

# CRITICAL COMMENTS

Where incorporation prior to sowing is impractical and where the seedbed tilth is fine and free of large stones and trash, Apparent Pendimethalin 440 Herbicide should be applied within 48 hours after sowing.

Where incorporation prior to sowing is impractical and where the seedbed tilth is fine and free of large stones and trash. Apparent Pendimethalin 440 Herbicide should be applied within 48 hours after sowing and before the emergence of the crop and weeds.

Where Fat Hen or Blackberry Nightshade is expected to be a major problem, pre-plant incorporation is preferred. Refer to the relevant sections under the heading "Incorporation" in "General Instructions".

Use Apparent Pendimethalin 440 Herbicide after planting and before emergence of crop or weeds, especially where grasses are expected to be the major problem. DO NOT incorporate. Avoid application in dry weather; this may cause pruning of aerial roots and lodging. Refer to the relevant sections under the heading "Incorporation" in "General Instructions".

Apparent Pendimethalin 440 Herbicide should be applied in a tank mix combination with atrazine after planting and before the emergence of crop and weeds, where Thornapple, Noogoora Burr, Bathurst Burr, Caltrop, Paddy Melon or Mintweed are expected to be a major problem.

Do NOT incorporate this mixture. Follow directions on atrazine label carefully. This treatment should not lead to soil residue problems with atrazine, as the application rate is low. Do NOT use Apparent Pendimethalin 440 Herbicide mixed with atrazine on heavy clay soils, as weed control may not be adequate. Refer to the relevant sections under the heading "Incorporation" in "General Instructions".

CROP	WEED CONTROLLED	STATE	RATE/TREATED HA
Broad Beans	Poppies, Wireweed (Polygonum aviculare)	TAS only	3L/ha
Carrots	See Weed Table D	QLD, NSW, VIC,	1.5 to 2.25L/ha
	Weed Table D plus	SA, TAS, WA only	1.5L/ha plus linuron at
	Wild Radish (Raphanus raphanistrum) and	-	1.0kg ai/ha
	Sowthistle (Sonchus oleraceus)		•
Processing Peas	See Weed Table D	QLD, VIC only	1.5 to 3L/ha
		TAS only	3L/ha
French Beans		QLD, TAS only	2.25 to 3L/ha
Onions	Hogweed (Wireweed) (Polygonum aviculare)	TAS only	0.56 to 0.75L/ha
			0.75 to 1.5L/ha
		NSW, ACT, VIC, SA, WA only	
			0.56 to 0.75L/ha (See
			Critical comments)

## CRITICAL COMMENTS

#### MINIMUM PLANTING DEPTH:

Carrots: 15mm. Processing peas and French beans: 30mm. Seed should be sown with press wheels or rollers behind the planter in order to ensure coverage of the seed and compaction of the seedbed. Apply Apparent Pendimethalin 440 Herbicide to a fine seedbed free of ridges, clods and trash within 2 days after sowing.

Use the higher rates on heavier textured soils or those with a higher organic matter content.

Incorporate with 12 to 25mm of spray irrigation or rainfall applied within one day of application for optimum performance. Do NOT disturb the soil by rolling or harrowing after Apparent Pendimethalin 440 Herbicide has been applied. Do NOT apply where heavy rainfall or irrigation is likely to lead to water logging. Do NOT use Apparent Pendimethalin 440 Herbicide on soils with an organic matter content above 6% as inconsistent weed

control will occur FRENCH BEANS: For use in the Lockyer and Fassifern Valleys only. Do NOT apply to French Beans sown during the

autumn, winter or early spring or which are likely to be stressed by cold weather. Apply in conjunction with other herbicides as advised by a qualified crop adviser to ensure that an adequate level of weed control is achieved in adverse conditions

Pre-Emergence: Do NOT use on sandy soils.

MINIMUM PLANTING DEPTH: 15mm. Apply from immediately after sowing until just prior to emergence. Apply Apparent Pendimethalin 440 Herbicide to a fine, firm seedbed free of clods and trash. Use the higher rates on heavy textured soils or those with a high organic matter content. For optimum performance, incorporate with 12 to 25mm of spray

irrigation within one day of application. DO NOT exceed 0.56L/ha if soil conditions are wet and cold. Post-Emergence: Apply Apparent Pendimethalin 440 Herbicide from the first true leaf until the 3 leaf stage. Repeat applications may be made after the 1 leaf up to the 3 leaf stage providing total usage of Apparent Pendimethalin 440

Herbicide on crop does not exceed 2.25L/ha. Avoid applying Apparent Pendimethalin 440 Herbicide to areas where water logging is likely to occur. Apply in conjunction with other herbicides as advised by a qualified crop advisor to ensure that an adequate level of

- weed control is achieved in adverse conditions. Depth of sowing is critical. Onions must be sown to a depth of at least 15mm with press wheels or rollers behind the
- planter to ensure coverage and compaction.
- DO NOT disturb the soil by rolling or harrowing after application.
- For optimum performance, incorporate with spray irrigation within a day of planting. However, DO NOT water heavily (no more than 12mm irrigation) for at least 5 days after application.
- AVOID application to areas where water logging is likely to occur.
- DO NOT apply if heavy rain is likely within a week of application, as crop damage may result.
- DO NOT exceed 0.75L/ha if soil conditions are wet and cold.
- DO NOT apply more than 3 times per season.
- DO NOT apply more than 3L/ha per season.

#### Light/Sandy soils

DO NOT apply pre-emergence.

#### Application to moist soil is best

Apply 0.56 to 0.75L/ha post emergence at the 4-5 leaf stage, with 1-2 further applications of 0.56 to 0.75L/ha as needed throughout the season, (Approx. 3-4 weeks apart).

CROP	WEED CONTROLLED	STATE	RATE/TREATED HA
Onions (cont)	Hogweed (Wireweed) (Polygonum aviculare)	NSW, ACT, VIC, SA, WA only	0.75 to 1.5L/ha (See Critical comments)
Sugarcane	Summer Grass (Digitaria ciliaris), Awnless Barnyard Grass (Echinochloa colona), Crowstoot Grass (Eleusine indica), Guinea grass (Panicum maximum c.v. Hamil and c.v. Guinea), Green Summer Grass (Brachiaria subquadripara) Blue Top (Blue Billygoat Weed) (Ageratum houstonianum)	OLD, NSW, WA	2.25 to 3.4L/ha  2.25L/ha plus 1.7kg/ha atrazine 900WG or 3L/ha flowable atrazine or 1.7kg/ ha diuron 900WG or 3L/ha flowable diuron
	Barnyard Grass (Echinochloa spp.), Blackberry Nightshade (Solanum nigrum), Blue Top (Blue Billygoat Weed) (Ageratum houstonianum), Common sida (Sida rhombifolia), Giant/black Pigweed (Trianthema portulacastrum), Glossy Nightshade (Solanum americanum), Green Amaranth (Amaranthus viridis), Ipomoea spp., Liverseed Grass (Urochloa panicoides), Milkweed (Mexican Fire Plant) (Euphorbia heterophylla), Pigweed (Portulaca oleracea)		2.25L/ha plus 400mL/ha imazapic

#### CRITICAL COMMENTS

Heavy/High organic matter soils. Application to moist soil is best.

Apply 0.75 to 1.5L/ha pre-emergence within 2 days of planting. Apply to a fine, firm seed bed free of ridges, clods and trash.

For furrow irrigated crops, application to a dry seed bed, followed by irrigation within 5 days is optimal.

For furrow irrigated crops, application to a dry seed bed, followed by irrigation within 5 days is optima

An application of 0.75 to 1.5L/ha post emergence may be made at the 2 leaf stage. (Application at this stage may cause

yellowing of onions).

Apparent Pendimethalin 440 Herbicide should be applied as soon as possible after planting and before weed emergence.

Consolidation (cutaway operation) of the planting furrow prior to application, to prevent soil movement into the base of the drill. is recommended.

Expect poor grass control in soils that contain a high percentage of organic matter. Refer to the relevant sections under the heading "Incorporation" in "General Instructions".

Use the higher rate where longer weed control is required or where incorporation by irrigation or rainfall is likely to be delayed more than 5 days.

#### NOTE

**INCORPORATION:** Under dry conditions or where some cultivation is expected after application Apparent Pendimethalin 440 Herbicide should be thoroughly incorporated by finger rakes to a shallow depth. In subsequent tillage operations, cultivation depth should not exceed the depth of incorporation.

WATER INCORPORATION: Incorporate using 12 to 25mm of spray irrigation or when suitable rainfall is expected within 10 days of application. The area should not be disturbed by cultivation for the expected duration of weed control where this method of application is used. If excessive irrigation or rainfall occurs after the application of Apparent Pendimethalin 440 Herbicide, resulting in the movement of soil from the top to the bottom of the planting drill, weed control will be reduced. For other broadleaved weeds higher rates of atrazine or diuron can be tank mixed with Apparent Pendimethalin 440 Herbicide - see the relevant atrazine or diuron labels for details.

TANK MIXTURES: Read and follow all label directions including restraints, spray drift restraints, mandatory no-spray zones, critical comments, withholding periods, regional use restrictions and safety directions for the tank mix products.

Incorporate into the soil either by overhead irrigation, rainfall or mechanical incorporation, to a depth of 5cm. Incorporate as soon as possible and within 3-5 days after application. Read all directions for use in sugarcane on the imazapic label.

CROP	WEED CONTROLLED	STATE	RATE/TREATED HA	
Combine sown rice	Barnyard Grass ( <i>Echinochloa</i> spp.), Silvertop Grass (Brown Beetle Grass) ( <i>Diplachne</i> reptatrix), Starfruit ( <i>Damasonium minus</i> )	QLD, NSW, NT only	2.25L/ha plus propanil at 1.8kgai/ha	
POST-PLANT AND FLUSHING				

POST-PLANT AND FLU	POST-PLANT AND FLUSHING				
CROP	WEED CONTROLLED	STATE	RATE/TREATED HA		
Combine sown rice and pasture sod sown rice	As above plus suppression of Annual Sedges (Cyperus spp.)	QLD, NSW, NT only			

## PRE-TRANSPLANT TREATMENT

PKE-IKANSPLANI IKEAIMENI				
CROP	WEED CONTROLLED	STATE	RATE/TREATED HA	
Transplanted broccoli,	See Weed Table D	All States	1.5 to 2.25L/ha	
cabbage and cauliflower	See Weed Table D plus Wild Radish		1.5 to 1.9L/ha plus 9L/ha	
-	(Raphanus raphanistrum), Indian Hedge		Ramrod® SC	
	Mustard (Sisymbrium orientale), Turnip Weed			
	(Rapistrum rugosum), Wild Turnip (Brassica			
	tournefortii), Potato Weed (Galinsoga paviflora),			
	Sowthistle, (Sonchus oleraceus), Dwarf			
	Amaranth (Amaranthus macrocarpus), Green			
	Amaranth (Amaranthus viridis), Winter Grass			
	(Poa annua), Annual Nettles (Uritica spp.)			
Transplanted lettuce	See Weed Table D	QLD, NSW, VIC,	1.5 to 3L/ha	
		SA, WA only		

#### CRITICAL COMMENTS

maintained for optimum growth of rice.

Apply this tank mixture up to the 2 leaf stage of Barnyard Grass and 1 leaf stage of Silvertop, either by ground rig in 70–100L/ha or by aircraft in 25-30L/ha total spray volume.

WATER MANAGEMENT: Flush immediately after sowing to enable a good even germination of rice and to ensure the soil surface is sealed. Apply a second flush or permanent flood after 2 days but not later than 5 days after the application. To assist in the control of Barnvard Grass, permanent water should be applied as soon as the rice can tolerate it and levels.

RICE STAGE: After the first flushing irrigation, the stage of rice at application of this tank mixture is not critical. Timing should be based on the stage of weed growth and water management. However, DO NOT apply to rice in a weakened condition as a result of soil salts, moisture stress, over-watering, or any other cause. Some transient leaf burn of the rice may result after the application but no long term effects will result. Rice seed should be covered with at least 1cm of water after the first flushing irrigation before Apparent Pendimethalin 440 Herbicide plus propanil is applied to perminating rice seed.

#### CRITICAL COMMENTS

Use the higher rate when sowing into pasture sod sown rice for Annual Sedge control or when more than 10 days is expected between treatment and permanent water. Apply up to the 3 leaf stage of Barnyard Grass, Silvertop and Sedges, before rice emergence. Apply by ground rig in 70-100L/ha of water total spray volume.

WATER MANAGEMENT: Flush immediately after sowing to enable a good even germination of rice. The soil surface must be sealed by a flushing irrigation or rainfall before the application of Apparent Pendimethalin 440 Herbicide plus paraquat. Apply a second flush or permanent flood after 1 day but not later than 5 days after the application of Apparent Pendimethalin 440 Herbicide plus paraquat. To assist in the control of barnyard grass, permanent water should be applied as soon as the rice can tolerate it and levels maintained for optimum growth of rice.

**RICE STAGE:** After the first flushing irrigation, Apparent Pendimethalin 440 Herbicide plus paraquat must be applied before rice emergence. Do NOT apply to rice in a weakened condition from causes such as soil salts, moisture stress, over-watering, or any other cause.

### CRITICAL COMMENTS

Apply Apparent Pendimethalin 440 Herbicide to a firm seedbed free of ridges, clods and trash between 2-7 days before transplanting. Use the higher rates on heavier textured soils or those with higher organic matter content.

For optimum performance incorporate with 12 to 25mm of spray irrigation (or rainfall expected within one day) and ensure

minimal mechanical disturbance to the seedbed at transplanting. DO NOT apply after transplanting, as damage will occur.

DO NOT apply where water logging is likely to occur after transplanting or crop stunting will result.

DO NOT use Apparent Pendimethalin 440 Herbicide on soils with an organic matter content above 6% as inconsistent weed control will occur.

Ramrod® SC may be tank mixed with Apparent Pendimethalin 440 Herbicide prior to transplanting **or** applied separately after transplanting.

#### PERENNIAL CROPS

CROP	WEED CONTROLLED	STATE	RATE/TREATED HA
Avocadoes, bananas,	Dwarf Amaranth (Amaranthus macrocarpus),	All States	6.75 to 9L/ha
citrus, deciduous	Green Amaranth (Amaranthus viridis),		
fruits, grapevines,	Annual Ryegrass, (Lolium rigidum), Asthma		
lychees macadamia nut,	Plant (Euphorbia hirta), Barnyard Grass,		
mangoes, nuts	(Echinochloa spp.), Chickweed (Stellaria		
	media), Crowsfoot Grass (Eleusine indica),		
	Deadnettle (Lamium amplexicaule), Fat		
	Hen ( <i>Chenopodium album</i> ), Pigeon Grass		
	(Setaria spp.), Pigweed (Portulaca oleracea),		
	Prickly Lettuce (Lactuca serriola), Sowthistle		
	(Sonchus oleraceus), Summer Grass,		
	(Digitaria anguinalis), Winter Grass (Poa		
	annua), Wireweed ((Polygonum aviculare)		
	As above plus Prairie Grass ( <i>Bromus</i>		9L/ha
	unioloides), Spotted Medic (Medicago		
	arabica)		
Deciduous fruits, nuts,	Asthma Plant (Euphorbia hirta), Summer		6.75 to 9L/ha
grapevines, citrus	Grass ( <i>Digitaria anguinalis</i> ), Barnyard		
	Grass (Echinochloa spp.), Crowsfoot Grass		
	(Eleusine indica), Pigeon Grass (Setaria spp.),		
	Winter Grass ( <i>Poa annua</i> ), Annual Ryegrass		
	(Lolium rigidum), Chickweed (Stellaria		
	media), Sowthistle (Sonchus oleraceus),		
	Pigweed ( <i>Portulaca oleracea</i> ), Dwarf Amaranth		
	( <i>Amaranthus macrocarpus</i> ), Green Amaranth		
	(Amaranthus viridis), Fat Hen (Chenopodium		
	album), Wireweed (Polygonum aviculare),		
	Prickly Lettuce ( <i>Lactuca serriola</i> ), Deadnettle		
	(Lamium amplexicaule)		0.751.0
	As above plus Stinking Roger ( <i>Tagetes</i>		6.75L/ha plus 900g/ha
	minuta), Cobbler's Pegs (Bidens pilosa),		simazine 900WG or 1.6L/ha
	Curious Weed (Schkuhria pinnata)		flowable simazine
	As above plus Caltrop ( <i>Tribulus terrestris</i> )		9L/ha plus 1.1kg/ha
			simazine 900WG or 2L/ha
			flowable simazine

#### CRITICAL COMMENTS

Do NOT apply Apparent Pendimethalin 440 Herbicide to grapevines after bud swell.

**PRECAUTION:** Apparent Pendimethalin 440 Herbicide or Apparent Pendimethalin 440 Herbicide plus simazine is likely to affect the emergence and growth of green manure crops such as oats or beans between rows of trees or vines, if they are sown into the treated band within 12 months of application.

Use the higher rate on medium to heavy textured soils and the lower rate on light textured soils. Use a directed spray avoiding spray contact with green bark, fruit and foliage. If applied to freshly transplanted trees or vines, soils should be compacted prior to application of Apparent Pendimethalin 440 Herbicide to avoid contact with roots. Apparent Pendimethalin 440 Herbicide must be incorporated by a minimum of 5mm of rainfall or spray irrigation as soon as possible but no later than 10 days after application or weed control may be reduced. For best results, soil surface should be free of weeds, surface litter and clods at the time of application. If small weeds are present at the time of application, Pendimethalin 440 Herbicide should be tank mixed with a knockdown herbicide at the recommended rate.

Crop damage and/or reduced weed control may occur if Apparent Pendimethalin 440 Herbicide is not incorporated successfully. If insufficient rainfall follows within 10 days of application the product must be incorporated over the whole surface area treated through the use of overhead sprinklers or by mechanical means, using appropriate equipment to avoid root damage. Drip irripation is inadequate for this purpose.

A minimum of 5-10mm of rain or sprinkler irrigation is normally required to incorporate Apparent Pendimethalin 440 Herbicide into the soil. For best results, soil surface should be free of weeds, surface litter and clods at the time of application. If small weeds are present at the time of application, Apparent Pendimethalin 440 Herbicide should be tank mixed with a knockdown herbicide at the recommended rate.

A minimum of 5-10mm of rain or sprinkler irrigation is normally required to incorporate Apparent Pendimethalin 440 Herbicide into the soil. For best results, soil surface should be free of weeds, surface litter and clods at the time of application. If small weeds are present at the time of application, Apparent Pendimethalin 440 Herbicide should be tank mixed with a knockdown herbicide at the recommended rate.

Use of simazine could lead to crop damage on vines younger than 3 years of age. Refer to the simazine label. Do NOT apply tank mixtures of Apparent Pendimethalin 440 Herbicide plus simazine to alkaline soils.

Established lucerne seed	Summer Grass ( <i>Digitaria anguinalis</i> ), Fat Hen	NSW, SA only	2.25L/ha
crops only	(Chenopodium album)		0.41.11
AD AD	As above plus Pigeon Grass ( <i>Setaria</i> spp.)	OTATE	3.4L/ha
CROP	WEED CONTROLLED	STATE	RATE/TREATED HA
Eucalypt forestry plantations	Amaranth (Amaranthus spp.), Annual Ryegrass, (Lolium rigidum), Asthma Plant (Euphorbia hirta), Barnyard Grass, (Echinochloa spp.), Chickweed (Stellaria media), Crowsfoot Grass (Eleusine indica), Deadnettle (Lanium amplexicaule), Fat Hen (Chenopodium album), Pigeon Grass (Setaria spp.), Pigweed (Portulaca oleracea), Prickly Lettuce (Lactuca serriola), Stagger weed (Stachys arvensis), Sowthistle (Sonchus oleraceus), Summer Grass, (Digitaria anguinalis), Winter Grass (Poa annua), Wireweed (Polygonum aviculare)	All States	6.75 to 9L/ha
Pyrethrum	See Weed Table D	TAS only	1.5 to 2.25L/ha
Pre-emergence crops		,	
Pyrethrum			1.5 to 3.75L/ha
Post-emergence crops			·
Pyrethrum –newly			3.75L/ha
transplanted "splits"	Suppression of the following weeds is also obtained: Capeweed ( <i>Arctotheca calendula</i> ),		
Established pyrethrum (one year old or greater)	Erodium spp. (Storks bill), Spear Thistle (Cirsium vulgare)		
Teatree ( <i>Melaleuca</i> <i>alternifolia</i> )	Weed Table B plus Dwarf Amaranth (Amaranthus macrocarpus), Green Amaranth (Amaranthus viridis), Annual Ryegrass (Lolium rigidum), Barnyard Grass (Ebnicochloa spp.), Chickweed (Stellaria media), Crowsfoot Grass (Eleusine indica), Deadnettle (Lamium amplexicaule), Fat Hen (Chenopodium album), Pigeon Grass (Setaria spp.), Pigweed (Portulaca oleracea), Prickly Lettuce (Lactuca serriola), Sowthistle (Sonchus oleraceus), Summer Grass, (Digitaria anguinalis), Winter Grass (Poa annua), Wireweed (Polygonum aviculare)	NSW, QLD, SA, NT only	3.4 to 6.75L/ha

During the spring months prior to irrigation, the lucerne stand should be grazed down hard to produce a low trash soil surface. Apply Apparent Pendimethalin 440 Herbicide and incorporate treatment by 12-25mm of spray irrigation or when rainfall is expected within one day of application.

#### CRITICAL COMMENTS

**PRE-PLANTING:** Apply 7 to 2 days prior to transplanting. Use the higher rate on heavier textured soils or soils with high organic matter. Mechanical disturbance should be minimised during planting to optimise performance.

**POST-PLANTING:** Apply immediately following planting. Before emergence of weeds. Repeat applications may be made as directed sprays to provide pre- emergence control of weeds. Emerged weeds should be controlled with carefully directed applications of a non-selective herbicide or over- the-top application of a selective herbicide. If applied to freshly transplanted trees, soil should be compacted prior to application to avoid contact with roots. Weed control may be reduced if rainfall or irrigation does not occur within 10 days of application. Flood irrigation may reduce control.

Apply Apparent Pendimethalin 440 Herbicide to seedbed within 10 days of sowing, prior to pyrethrum emergence.

Apply at the lower rates on sandy soils. Incorporate with 12-25mm of rainfall or irrigation within 1 day of application for optimum performance.

Apply Apparent Pendimethalin 440 Herbicide prior to weed germination at any stage or pyrethrum growth from 2 true leaf stage to pre-flowering, as advised by qualified crop advisor. Seek advice from qualified crop advisor before applying follow-up applications in any one year. Incorporate with 12-25mm of rainfall or irrigation within 1 day of application for optimum performance.

Apply immediately following transplanting before emergence of weeds. Repeat applications in any one year should only be made according to advice from crop advisers. Use lower rates on light soils. This product should be used in combination with other registered herbicides as recommended by crop advisers.

Apply in autumn or spring prior to weed germination. Note existing weeds must be controlled with a knockdown herbicide,

as Apparent Pendimethalin 440 Herbicide will not control these weeds. Repeat applications in any one year should only be made according to advice from crop advisers. This product should be used in combination with other registered herbicides as recommended by crop advisers.

DO NOT tank mix with simazine as crop damage may result. For best results the soil surface should be free of weeds,

DU NOT tank mix with simazine as crop damage may result. For best results the soil surface should be tree of weeds, surface litter and clods at the time of application. **PRE-TRANSPLANTING:** Apply 7 to 2 days prior to transplanting seedlings. Use the higher rates on heavier textured soils

or soils with higher organic matter.

Mechanical disturbance should be minimised during planting to optimise performance. Avoid contact of treated soil with

seedling roots.

POST-PLANTING: Apply immediately following planting and pre-emergence of weeds. If applied to freshly transplanted trees, soils should be compacted prior to application of Apparent Pendimethalin 440 Herbicide to avoid contact with roots.

Weed control may be reduced if rainfall or irrigation does not occur within 10 days of application. Flood irrigation may

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reduce control.

ESTABLISHED TURF	TURF
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CROP	WEED CONTROLLED	STATE	RATE/TREATED HA
TURF WARM SEASON	Summer Grass, (Digitaria anguinalis),	All States	3.4L/ha or 34mL/100m <sup>2</sup>
SPECIES.	Crowsfoot (Crab Grass), Winter Grass (Poa		
Bahia Grass, Buffalo	annua)		
Grass, Couch, Kikuyu,			
Salt Water Couch and			
Zoysia Grass Turf			
Queensland Blue Couch,			2.25L/ha or 22.5mL/10m <sup>2</sup>
Hybrid Couch c.v.			
Tifdwarf			
TURF COOL SEASON			3.4L/ha or 34mL/100m <sup>2</sup>
SPECIES.			
Kentucky Blue Grass			
Bent Grass, Perennial			2.25L/ha or 22.5mL/100m <sup>2</sup>
Ryegrass			

#### IBRIGATION CHANNELS

SITUATION	WEED CONTROLLED	STATE	RATE/TREATED HA
Cotton Irrigation Banks,	Barnyard Grass (Echinochloa spp.), Silvertop	QLD, NSW only	3.4 to 6.75L/ha
Channels and Drains	Grass (Brown Beetle Grass) (Diplachne		
	reptatrix)		
			4.5L/ha plus 9kg/ha
			diuron 900WG or 16.2L/ha
			flowable diuron

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED

#### **CRITICAL COMMENTS**

Incorporate by 10-15mm of spray irrigation or when rainfall is expected within one day of application.

Apply once every 10 weeks from early September to the end of February.

The product should be incorporated by 10-15mm of spray irrigation or rainfall as soon as possible within one day of application.

Apply Apparent Pendimethalin 440 Herbicide only once per year to control weeds in Perennial Ryegrass and Bent Grass.

#### CRITICAL COMMENTS

Use the lower rate when short term control is required. Apply in late winter or early spring after regrading or clearing channels. The soil should be loose and free of large clods.

If 25-50mm of rainfall has not fallen within 14 days of application the channel should be filled with water and allowed to stand for 1 day. The water in the channel should then be drained off and used to pre-irrigate cotton fields. DO NOT use water in channel to irrigate or pre-irrigate susceptible crops.

Use this mixture where long term control s required or a broader weed spectrum is present. See diuron label for details. Water in the channel should NOT be used to irrigate or pre-irrigate susceptible crops.

TANK MIXTURES: Read and follow all label directions including restraints, spray drift restraints, mandatory no-pray zones, critical comments, withholding periods, regional use restrictions and safety directions for the tank mix products.

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		ent (double incorporation)			
The following weeds are controlled:					
Barnyard Grass	Echinochloa spp.	Native Millet	Panicum decompositum		
Button Grass	Dactyloctenium radulans	Pale Pigeon Grass	Setaria glauca		
Common Heliotrope	Heliotropium europeaum	Paspalidium	Paspalidium spp.		
Crested Goosefoot	Chenopodium cristatum	Pepper Grass	Panicum whitei		
Crowsfoot Grass	Eleusine indica	Pigweed	Portulaca oleracea		
Dwarf Amaranth	Amaranthus macrocarpus	Queensland Blue Grass	Dichanthium sericeum		
Early Spring Grass	Eriochloa spp.	Red Flinders Grass	Iseilema vaginiflorum		
Fat Hen	Chenopodium album	Scarlet Pimpernel	Anagallis arvensis		
Green Amaranth	Amaranthus viridis	Small Burr Grass	Tragus australianus		
Liverseed Grass	Urochloa panicoides	Stink Grass	Eragrostis cilianensis		
Mexican Clover	Richardia brasiliensis	Weeping Love Grass	Eragrostis parviflora		
Mossman River Grass	Cenchrus echinatus	Wireweed	Polygonum aviculare		
Useful suppression of the following weeds is also obtained:					
Blackberry Nightshade	Solanum nigrum	Mintweed	Salvia reflexa		
Caltrop	Tribulus terrestris	Peppercress	Lepidium spp.		
Common Verbena	Verbena officinalis	Stagger Weed	Stachys arvensis		

3, MAIZE AND TEA THEE - W	nın posi-piani pre-emergei	nce surrace treatment		
440 Herbicide alone)				
ontrolled:				
Echinochloa spp.	Pale Pigeon Grass	Setaria glauca		
Dactyloctenium radulans	Paspalidium	Paspalidium spp.		
Heliotropium europeaum	Pepper Grass	Panicum whitei		
Chenopodium cristatum	Pigweed	Portulaca oleracea		
Eleusine indica	Queensland Blue Grass	Dichanthium sericeum		
Amaranthus macrocarpus	Red Flinders Grass	Iseilema vaginiflorum		
Eriochloa spp.	Scarlet Pimpernel	Anagallis arvensis		
Amaranthus viridis	Small Burr Grass	Tragus australianus		
Urochloa panicoides	Stink Grass	Eragrostis cilianensis		
Richardia brasiliensis	Weeping Love Grass	Eragrostis parviflora		
Cenchrus echinatus	Wireweed	Polygonum aviculare		
Panicum decompositum				
Useful suppression of the following weeds is also obtained:				
Tribulus terrestris	Mintweed	Salvia reflexa		
Sonchus oleraceus	Peppercress	Lepidium spp.		
Verbena officinalis	Stagger Weed	Stachys arvensis		
	440 Herbicide alone) controlled: Echinochloa spp. Dactyloctenium radulans Heliotropium europeaum Chenopodium cristatum Eleusine indica Amaranthus macrocarpus Eriochloa spp. Urochloa panicoides Richardia brasiliensis Cenchrus echinatus Panicum decompositum following weeds is also ob Tribulus terrestris Sonchus oleraceus	Controlled: Echinochioa spp. Pale Pigeon Grass Dactyloctenium radulans Heliotropium europeaum Chenopodium cristatum Eleusine indica Amaranthus macrocarpus Eriochloa spp. Scarlet Pimpernel Amaranthus viridis Urochloa panicoides Stink Grass Richardia brasiliensis Urochloa panicoides Weeping Love Grass Cenchrus echinatus Wireweed Panicum decompositum Gollowing weeds is also obtained: Tribulus terrestris Mintweed Sonchus oleraceus Peppercress		

#### WEED TABLE C

IN MAIZE with post-plant pre-emergence surface treatment of Apparent Pendimethalin 440 Herbicide plus tank mix with atrazine.					
The following weeds a	The following weeds are controlled in addition to those controlled by Apparent Pendimethalin 440				
Herbicide alone:					
Bathurst Burr	Xanthium pinosum	Noogoora burr	Xanthium pungens		
Caltrop	Tribulus terrestris	Paddy Melon	Cucumis spp.		
Mintweed	Salvia reflexa	Thornapple	Datura spp.		
The following weeds are not controlled by Apparent Pendimethalin 440 Herbicide or the mixture with					
atrazine:					
Bindweed	Convolvulus spp.	Nut Grass	Cyperus rotundus		
Wandering Jew	Commelina spp.				

WEED TABLE D					
IN CARROTS, PROCESSING PEAS, FRENCH BEANS, TRANSPLANTED CABBAGE, CAULIFLOWER,					
BROCCOLI AND LETTUCE	BROCCOLI AND LETTUCE - with pre-emergence surface treatment after planting or before transplanting				
as directed and incorporat					
The following weeds are o	ontrolled :				
Awnless Barnyard Grass	Echinochloa colona	Green Fat Hen	Chenopodium murale		
Bittercress	Coronopus didymus	Pigweed	Portulaca oleracea		
Bladder Ketmia	Hibiscus trionum	Prickly Lettuce	Lactuca serriola		
Chickweed	Stellaria media	Shepherd's Purse	Capsella bursa- pastoris		
Deadnettle	Lamium amplexicaule	Wireweed	Polygonum aviculare		
Fat Hen	Chenopodium album				
Suppression only of the following weeds at the lower rates. Higher rates or tank mixtures are required for					
complete control (see Directions for Use table).					
Annual Nettles	Urtica spp.	Indian Hedge Mustard	Sisymbrium orientale		
Blackberry Nightshade	Solanum nigrum	Turnip Weed	Rapistrum rugosum		
Common Sowthistle	Sonchus oleraceus	Wild Radish	Raphanus raphanistrum		
Fumitory	Fumaria spp.	Winter Grass	Poa annua		

#### GENERAL INSTRUCTIONS

Apparent Pendimethalin 440 Herbicide is a selective herbicide for the control of most annual grasses and certain broadleaved weeds. Apparent Pendimethalin 440 Herbicide controls weeds by inhibiting seedling development; it will not control established weeds. For best results, seedbeds should be free of weeds, trash and clods at the time of application. Soils containing a high percentage of organic matter can result in poor control. It is recommended that application to soils containing a high percentage of organic matter (oreater than 6%) be avoided.

Crop injury may result if cold, wet weather follows planting or if Apparent Pendimethalin 440 Herbicide is applied to a poorly prepared seedbed. With the return of favourable growing conditions (warm weather), the crop will usually recover and resume normal growth.

**NOTE:** Apparent Pendimethalin 440 Herbicide will stain (yellow) any objects it contacts. Keep all objects, etc. that are not to be stained well clear of the product and spray.

#### Mixina

Put half the required volume of water in spray tank and start agitation. When using Apparent Pendimethalin 440 Herbicide alone, add Apparent Pendimethalin 440 Herbicide to partially filled tank and then add the remainder of the water. Mix thoroughly. When using Apparent Pendimethalin 440 Herbicide in tank mixes with products such as atrazine or diuron, mix these products as indicated on the relevant label and add the Apparent Pendimethalin 440 Herbicide last, then complete filling of the tank. Maintain good agitation at all times until spraying is completed. If the spray mixture is allowed to settle, thorough agitation is essential to re-suspend the mixture before spraying is resumed. Note that when tank mixing Apparent Pendimethalin 440 Herbicide with paraquat and glyphosate herbicides, the Apparent Pendimethalin 440 Herbicide should be thoroughly mixed in the spray tank first, before adding a paraquat or glyphosate product.

#### Application Method Ground Application:

Use conventional sprayers with either mechanical or by-pass agitation. Flat fan nozzles should be used. Spray equipment should be correctly calibrated to ensure proper application. If applying Apparent Pendimethalin 440 Herbicide in tank mix combination with atrazine or diuron, nozzle screens must be no finer than 50 mesh. Apply the recommended quantity of Apparent Pendimethalin 440 Herbicide in 50-200 litres of water per hectare. Where pre-emergence surface treatment is used, the higher rates of water are recommended.

#### Aerial Application:

Pre-plant soybeans, cotton, sunflowers, peanuts, navy beans, cow peas, mung beans, pigeon peas and post-plant, post flushed combine sown rice only.

Apply the recommended quantity of Apparent Pendimethalin 440 Herbicide in 25-60 litres of water per hectare. It is essential that the equipment is correctly calibrated and an even spray pattern is obtained. It is essential that markers be used and an accurate swath width is maintained. Do NOT apply if wind speed is greater than 16 km/hour. Always spray with a cross wind in accordance with recommended flying practice.

DO NOT apply Apparent Pendimethalin 440 Herbicide by aerial spraying in eucalypt forestry situations.

#### Incorporation:

- (a) Apparent Pendimethalin 440 Herbicide works best if thoroughly mixed with soil either mechanically or by irrigation or rainfall. The aim of incorporation is to produce an even band of herbicide to intercept germinating weed seeds.
- (b) Post-plant pre-emergence surface applications of Apparent Pendimethalin 440 Herbicide alone, or as a tank mixture, are most effective in controlling weeds when adequate rainfall occurs or irrigation is applied within 7-10 days after treatment to achieve incorporation. If no rain or irrigation is received within 7-10 days, light mechanical incorporation is required for optimum weed control, except when used on maize, carrots and rice.

(c) Maize is tolerant to Apparent Pendimethalin 440 Herbicide either alone or in mixtures with atrazine if the seed germinates below the chemically treated band. Maize, carrots and rice are NOT tolerant to Apparent Pendimethalin 440 Herbicide if it is in direct contact with the seed.

#### **Cereal Seed Dressings**

Some fungicidal seed dressings can shorten coleoptile length and this can affect emergence particularly if seed is sown too deep. When these cereal seed dressings are used in Apparent Pendimethalin 440 Herbicide treated areas it is very important to ensure there is good seed depth control and to sow just below (1cm) the chemically treated band. Consult your local Department of Agriculture Agronomist for further advice.

#### Weather Conditions at Planting

Crop injury may result if cold weather follows planting. With the return of favourable growing conditions (warm weather), crops usually recover and resume normal growth. In cereals, prolonged cold wet conditions during germination and emergence can result in wheat or barley coleoptiles remaining in the treated band for an extended period. This can reduce emergence.

#### COMPATIBILITY

Apparent Pendimethalin 440 Herbicide is compatible with the following herbicides: atrazine, diuron, simazine, prometryn, fluometuron, fluometuron plus prometryn, ametryn, paraquat, propanil, linuron, glyphosate and Ramrod SC. If tank mixing, observe the directions under mixing.

#### **Following Crops**

In the event of crop failure the soil should be cultivated to a minimum depth of 15cm to ensure any residues are evenly dispersed throughout the soil. If a maize crop fails due to weather conditions or some other reason, maize can be replanted the same year without adverse effects but seeding depth must be below the retilled area.

# The following crops may be sown after a minimum interval of 2 months after application of Apparent Pendimethalin 440 Herbicide:

Carrots, parsnips, parsley, celery, potatoes, peas, French beans, transplanted Brassicas, transplanted lettuce, transplanted tomatoes, transplanted capsicums.

# The following crops may be sown after a minimum interval of 5 months after application of Apparent Pendimethalin 440 Herbicide:

Turnips, lettuce, radish, Brussels sprouts, cabbage, cauliflower, broccoli, onions, leeks, sweet corn, pumpkins, squash, melons, cucumbers.

# The following crops may be sown after a minimum interval of 12 months after application of Apparent Pendimethalin 440 Herbicide:

Redbeet (beetroot), spinach, silverbeet, poppy.

### RESISTANT WEEDS WARNING

# GROUP 3 HERBICIDE

Apparent Pendimethalin 440 Herbicide is a member of the dinitroaniline group of herbicides. Apparent Pendimethalin 440 Herbicide has the inhibition of tubulin formation mode of action. For weed resistance management, Apparent Pendimethalin 440 Herbicide is a Group 3 herbicides. Some naturally-occurring weed biotypes resistant to Apparent Pendimethalin 440 Herbicide and other Group 3 herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Apparent Pendimethalin 440 Herbicide or other Group 3 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, AIRR Apparent Ply Ltd accepts no liability for any losses that may result from the failure of Apparent Pendimethalin 440 Herbicide to control resistant weeds.

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

Do NOT apply under weather conditions or from spraying equipment, which could be expected to cause spray to drift onto nearby susceptible plants/adjacent crops, cropping lands or pastures.

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

Dangerous to fish and other aquatic life. Do NOT contaminate dams, rivers, drains or streams with chemical or used containers. **STORAGE AND DISPOSAL** 

#### All pack sizes:

Store in the closed, original container in a dry cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. DO NOT store below 5°C. Extended storage below 5°C can result in the formation of crystals on the bottom of the container. If crystallisation does occur, store the container on its side at room temperature and rock occasionally until crystal re-dissolve.

#### 5L. 10L. 20L. 200L ONLY

Triple rinse containers before disposal. Add rinsings to the 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 deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

#### For refillable containers (110L and 1000L only)

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

#### SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes, nose, and throat and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow length nitrile gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and face shield (or googles) and contaminated clothing.

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone 13 11 26, New Zealand 0800 764 766).

#### SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for APPARENT Pendimethalin 440 Herbicide is available from AIRR APPARENT Pty Ltd on request.

#### CONDITIONS OF SALE:

AIRR Apparent Pty Ltd 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 Apparent'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 AIRR Apparent Pty Ltd has any authority to add to or alter these conditions. Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Combustible liquid. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects. Precautionary Statements: Keep away from flames and hot surfaces. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Specific treatment (see on this label). Do NOT induce vomiting. Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/ attention. In case of fire: Use to extinguish: CO2, powder or water spray. Collect spillage. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national regulations.