

Cover Label: 170 mm (h) x 136 mm (w)

# APPROX SCALE ON A4 PAGE: 100%

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**PMS 158** 

PMS 3425

Workhouse job #: DE14168 Artwork revision date: 27/9/07



PACKAGING ARTWORK: Treflan 480 - 20 L Cover label				
APVMA APPROVAL #: 61902/20/0407				
FINAL APPROVAL DATE				
Marketing				
Regulatory Affairs				



# THE WORKHOUSE VISUAL COMMUNICATIONS PTY, LTD. ABN 36 051 781 607 LEVEL 1 50 YEQ STREET

PTY. LTD. ABN 36 051 781 607 LEVEL 1, 50 YEO STREET, NEUTRAL BAY NSW 2089 POST OFFICE BOX 17 NEUTRAL BAY NSW 2089 TELEPHONE: (02) 9953 1494 FACSIMILE: (02) 9953 5492

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.

Do not store near food, feedstuffs, fertilisers or seed. This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate by adding to the spray tank. Do not dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management site. The cap should not be replaced but may be taken separately.

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.

#### SPILL AND LEAK MANAGEMENT

Do not touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and footwear. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains.

Small spills/leaks: Absorb with material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Dam the area of large spills and report them to Dow AgroSciences Emergency Services at 1800-033-882.

#### SAFETY DIRECTIONS

- Harmful if swallowed.
- Will irritate the eyes and skin.
- Repeated exposure may cause allergic disorders.
- Sensitive workers should use protective clothing.
- Avoid contact with eyes and skin.
- Do not inhale spray mist.
- When opening the container and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves and face shield or goggles.
- 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 or goggles and contaminated clothing.

#### FIRST AID

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

#### **MATERIAL SAFETY DATA SHEET**

A Material Safety Data Sheet for **TREFLAN 480 HERBICIDE** is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.dowagrosciences.com.au

#### NOTICE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions or under off-label permits not endorsed by Dow AgroSciences, or under abnormal conditions.

Made in New Zealand

APVMA Approval No. 61902/20/0907

GMID: 09/07

EMERGENCY RESPONSE (ALL HOURS) RING FROM ANYWHERE IN AUSTRALIA

**1800 033 882** (LOCAL CALL FEE ONLY)

IN A TRANSPORT EMERGENCY ONLY DIAL 000 FOR POLICE OR FIRE BRIGADE





D.O.M./Batch No:



Back label: 170 mm (h) x 136 mm (w)

# APPROX SCALE ON A4 PAGE: 100%

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**PMS 158** 

Workhouse job #: DE14168 Artwork revision date: 17/10/07

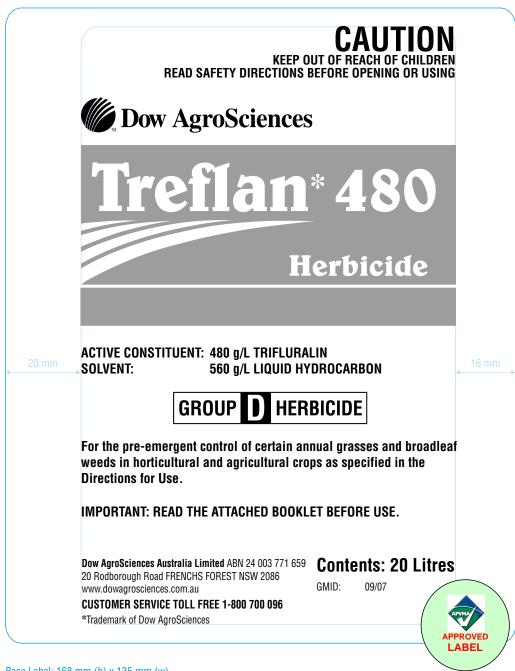


PACKAGING ARTWORK: Treflan 480 - 20 L Back label					
APVMA APPROVAL #: 61902/20/0407					
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THE WORKHOUSE VISUAL COMMUNICATIONS PTY. LTD. ABN 36 051 781 607 LEVEL 1, 50 YEO STREET, NEUTRAL BAY NSW 2089 POST OFFICE BOX 17 NEUTRAL BAY NSW 2089 TELEPHONE: (02) 9953 1494

FACSIMILE: (02) 9953 5492



Base Label: 168 mm (h) x 135 mm (w)

APPROX SCALE ON A4 PAGE: 100%

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Workhouse job #: DE14168 Artwork revision date: 27/9/07



PACKAGING ARTWORK: Treflan 480 - 20 L Base label					
APVMA APPROVAL #: 61902/20/0407					
FINAL APPROVAL DATE					
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Regulatory Affairs					



THE WORKHOUSE
VISUAL COMMUNICATIONS
PTY. LTD. ABN 36 051 781 607
LEVEL 1, 50 YEO STREET,
NEUTRAL BAY NSW 2089
POST OFFICE BOX 17
NEUTRAL BAY NSW 2089
TELEPHONE: (02) 9953 1494
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Cover Label: 170 mm (h) x 136 mm (w)

# APPROX SCALE ON A4 PAGE: 100%

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**PMS 158** 

PMS 3425

Workhouse job #: DE14168 Artwork revision date: 27/9/07



PACKAGING ARTWORK: Treflan 480 - 100 L Cover label					
APVMA APPROVAL #: 61902/100/0407					
FINAL APPROVAL DATE					
Marketing					
Regulatory Affairs					



#### THE WORKHOUSE VISUAL COMMUNICATIONS PTY. LTD. ABN 36 051 781 607

VISUAL CUMMUNICATION.
PTY, LTD, ABN 36 051 781 607
LEVEL 1, 50 YEO STREET,
NEUTRAL BAY NSW 2089
POST OFFICE BOX 17
NEUTRAL BAY NSW 2089
TELEPHONE: (02) 9953 1494
FACSIMIE: (02) 9953 5492

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.

Do not store near food, feedstuffs, fertilisers or seed.

Do not tamper with the dry valves or security seal. Do not contaminate the drum with water or any other foreign matter. After each use of the product ensure that the dry valve coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained. Add the rinsings to the spray tank. When the drum is empty close all valves and return to the point of purchase. The drum remains the property of Dow AgroSciences and must be returned.

# **SPILL AND LEAK MANAGEMENT**

Do not touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and footwear. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains. **Small spills/leaks:** Absorb with material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Dam the area of large spills and report them to Dow AgroSciences Emergency Services at 1-800 033 882.

# **SAFETY DIRECTIONS**

- Harmful if swallowed.
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- Sensitive workers should use protective clothing.
- Avoid contact with eyes and skin.
- Do not inhale spray mist.
- When opening the container and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves and face shield or goggles.
- After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.



## FIRST AIL

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

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# **MATERIAL SAFETY DATA SHEET**

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## NOTICE

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Made in New Zealand

**APVMA Approval No. 61902/100/0907** 

EMERGENCY RESPONSE
(ALL HOURS)
RING FROM ANYWHERE IN
AUSTRALIA
1800 033 882
(LOCAL CALL FEE ONLY)

IN A TRANSPORT EMERGENCY ONLY **DIAL 000** FOR POLICE OR FIRE BRIGADE

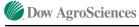


D.O.M./Batch No:



Base label: 185 mm (h) x 450 mm (w)

Workhouse job #: DE14168 Artwork revision date: 17/10/07



PACKAGING ARTWORK: Treflan 480 - 100 L Base label					
APVMA APPROVAL #:	APVMA APPROVAL #: 61902/100/0407				
	FINAL APPROVAL	DATE			
Marketing					
Regulatory Affairs					

APPROX SCALE ON A3 PAGE: 80%

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**PMS 158** 

**PMS 3425** 

Workhouse job #: DE14168 Artwork revision date: 27/9/07



PACKAGING ARTWORK: Treflan 480 - 110 L Cover label				
APVMA APPROVAL #: 61902/110/0407				
FINAL APPROVAL DATE				
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# THE WORKHOUSE VISUAL COMMUNICATIONS

PTY, LTD. ABN 36 051 781 607 LEVEL 1, 50 YEO STREET, NEUTRAL BAY NSW 2089 POST OFFICE BOX 17 NEUTRAL BAY NSW 2089 TELEPHONE: (02) 9953 1494 FACSIMILE: (02) 9953 5492

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Do not store near food, feedstuffs, fertilisers or seed.

Do not tamper with the dry valves or security seal. Do not contaminate the drum with water or any other foreign matter. After each use of the product ensure that the dry valve coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained. Add the rinsings to the spray tank. When the drum is empty close all valves and return to the point of purchase. The drum remains the property of Dow AgroSciences and must be returned.

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D.O.M./Batch No:



Base label: 185 mm (h) x 450 mm (w)

Workhouse job #: DE14168 Artwork revision date: 17/10/07



PACKAGING ARTWORK: Treflan 480 - 110 L Base label					
APVMA APPROVAL #: 61902/110/0407					
	FINAL APPROVAL DATE				
Marketing					
Regulatory Affairs					

APPROX SCALE ON A3 PAGE: 80%



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. Do not store near food, feedstuffs, fertilisers or seed. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

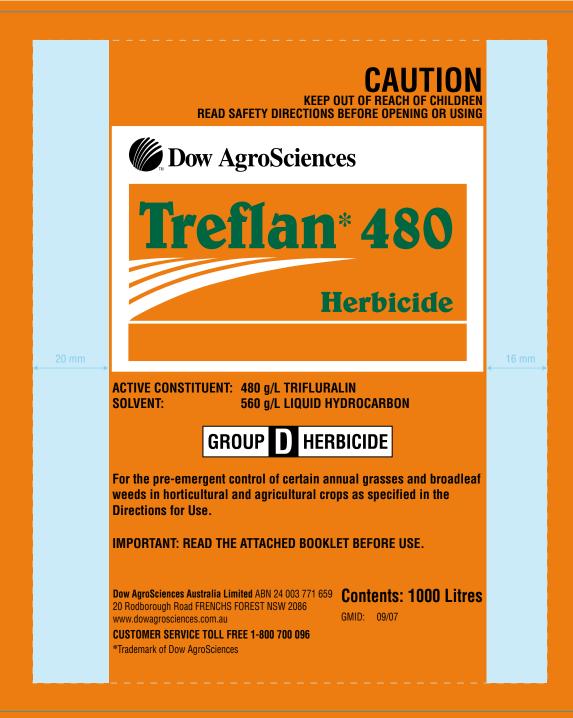
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   PVC gloves and face shield or goggles.
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FOR POLICE OR
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D.O.M./Batch No:



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Workhouse job #: DE14168 Artwork revision date: 17/10/07



PACKAGING ARTWORK: Treflan 480 - 1000 L Base label
APVMA APPROVAL #: 61902/1000/0407

FINAL APPROVAL DATE

Marketing

Regulatory Affairs

APPROX SCALE ON A3 PAGE: 80%

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**PMS 158** 

**PMS 3425** 



LEVEL 1, 50 YEO STREET, NEUTRAL BAY NSW 2089 POST OFFICE BOX 17 NEUTRAL BAY NSW 2089 TELEPHONE: (02) 9953 1494 FACSIMILE: (02) 9953 5492



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





**ACTIVE CONSTITUENT: 480 g/L TRIFLURALIN** 

SOLVENT: 560 g/L LIQUID HYDROCARBON



For the pre-emergent control of certain annual grasses and broadleaf weeds in horticultural and agricultural crops as specified in the Directions for Use.

IMPORTANT: READ THIS BOOKLET BEFORE USE.

Infopest

Verified

**Dow AgroSciences Australia Limited** ABN 24 003 771 659 20 Rodborough Road FRENCHS FOREST NSW 2086 www.dowagrosciences.com.au

**CUSTOMER SERVICE TOLL FREE 1-800 700 096** 

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GMID:

09/0

Treflan 480 Multi BKLT.indd 2-3 18/9/09 10:18:22 AM

## **DIRECTIONS FOR USE**

## RESTRAINTS

This product must be incorporated into the soil within 4 hours of application.

#### 1. FIELD CROPS

SITUATION & CROP	WEEDS CONTROLLED	STATE	
Chickpeas	Annual Ryegrass, Paradoxa Grass (Canary Grass), Wireweed (Hogweed), Black Pigweed, suppression of Climbing Buckwheat (Black Bindweed), Wild Oats	Qld only	
	Annual Ryegrass, Wireweed (Hogweed), Deadnettles and Wild Oats	Vic only	
	Red & White Furnitory, Rough Poppy, Wireweed (Hogweed), Annual Ryegrass, Barley Grass, Canary Grass, Sand Fescue, suppression of Deadnettle, Speedwell, Three Cormered Jack, Yellow Burr Weed, Brome Grass, Cereal Oats and surface Wild Oats	SA only	
	Amaranthus, Annual Ryegrass, Barnvard Grass, Caltrop, Crab Grass,	ACT, NSW, only	
Adzuki Beans, Cowpeas, Lablab, Mung Beans, Borlotti Beans, Red Kidney Beans	Paradoxa Grass (Canary Grass), Pigweed, Wild Oats, Winter Grass, Wireweed (Hogweed), suppression of Fumitory	ACT, NSW, Qld, only	
Faba Beans	Annual Ryegrass, Barley Grass, Capeweed, Corn Gromwell (Sheepweed), Fumitories, Geranium, Ivy Leaf Speedwell, Mustards, Turnips, Wireweed, suppression of Brome Grass, Soursob and Wild Oats	SA, WA only	
Pigeon Peas	Amaranthus, Barnyard Grass, Canary Grass, Crowsfoot Grass, Pigweed, Spiny Burrgrass, Summer Grass, Wild Oats, Wireweed (Hogweed), suppression of Yellow Vine (Caltrop) From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass	ACT, NSW, only	
Lentils	Annual Phalaris, Annual Ryegrass, Wild Oats, Wireweed (Hogweed)	ACT, NSW, only	
	Fumitory – Red and White, Rough Poppy, Wireweed (Hogweed), Barley Grass	SA only	

RATE/ SOIL TYPE		PE	CRITICAL COMMENTS
LIGHT	MED.	HEAVY	
1.25 - 1.7 L/ha	1.25 - 1.7 L/ha	1.25 - 1.7 L/ha	Use 1.25 L/ha when applying immediately prior to sowing. Use 1.7 L/ha when applying to dry soil before the planting rain.
800 mL/ha	plus 1 L/ha trialla	te (500 g/L)	Incorporate as per recommendations for wheat, barley and triticale.
1.25 L/ha	1.25 L/ha	1.25 L/ha	Apply to level seed bed 0 to 4 weeks before sowing. See Incorporation Table direction 6 for method of incorporation.
1.2 - 1.5 L/ha	1.5 L/ha	1.7 L/ha	Apply from 4 weeks up to just prior to sowing. See Incorporation Table directions 3, 4 or 5 for method of incorporation.
800 mL/ha plu	800 mL/ha plus 1.1 kg/ha simazine (900g/kg)		Apply to bare moist soil and incorporate to a depth of 5 cm just prior to sowing. Incorporation should be made within 4 hours of application. Application should not be made to ridged or excessively cloddy soil. For full reliable results, significant rainfall (20 or 30 mm) is necessary within 2 - 3 weeks of application.
1.2	1.5	1.7	Apply between 4 weeks and just before sowing. See Incorporation Table directions 3, 4 or 6.
800 mL	1.2 L/ha	1.2 L/ha	Apply 1 to 4 weeks before sowing.
1.25 L/ha	1.25 L/ha	1.25 L/ha	

SITUATION & CROP	WEEDS CONTROLLED	STATE
Navy Beans Soybeans	Annual Ryegrass, Barnyard Grass, Canary Grass, Caltrop (Bullhead/ Yellow Vine), Crab Grass, Mossman River Grass (Innocent Weed), Pigweed, Redroot (Amaranthus), Redshank (Prince Of Wales Feather), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed)  From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass (Urochloa)	All States
Vetch	Annual Ryegrass, Deadnettle, Wireweed (Hogweed), soil surface Wild Oats, suppression of Brome Grass, Rough Poppy, Speedwell, Three Cornered Jack, Yellow Burr Weed, Sheepweed	SA, WA only
Cotton	Annual Ryegrass, Barnyard Grass, Canary Grass, Caltrop (Bullhead/	NSW, Qld, WA only
Legume seed crop establishment:  Annual Medics Clover (Berseem, Red Strawberry, Sub and White) Lucerne	Canary Grass, Caltrop (Bullhead)  Yellow Vine), Crab Grass, Mossman River Grass (Innocent Weed), Pigweed, Redroot (Amaranthus), Redshank (Prince Of Wales Feather), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed), Black Pigweed (Old only), Phalaris spp. Fumitory	ACT, NSW, SA, Tas, Vic, WA only
Lucerne for hay and seed crops	From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass ( <i>Urochloa</i> )	All States
Linseed		ACT, NSW, SA, Vic, WA only
Peanuts		Qld, WA only
Peas		All States
Canola Safflower		
Sugar Cane -Early season		NSW, Qld only
-Late season		

R	ATE/ SOIL TYF	PE	CRITICAL COMMENTS	
LIGHT	MED.	HEAVY		
1.2 L/ha	1.5 L/ha	1.7 L/ha	Spray between 4 weeks and just before sowing takes	
1.2 L/ha	1.5 L/ha	2.3 L/ha	place. See Incorporation Table directions 3, 4 or 5.	
1.7 L/ha	1.7 L/ha	1.7 L/ha	Apply to level seedbed 0 to 4 weeks before sowing. See Incorporation Table direction 6 for method of incorporation.	
1.2 L/ha	1.7 L/ha	2.3 L/ha	Spray between 6 weeks and just before sowing takes place. See Incorporation Table directions 1 & 2.	
1.2 L/ha	1.2 L/ha	1.7 L/ha	Autumn Sowing – Apply from 4 weeks to 7 days before sowing takes place. See Incorporation Table direction 6 for method of incorporation.	
1.2 L/ha	1.7 L/ha	1.7 L/ha	Spring Sowing – Apply between 4 weeks and 3 days before sowing takes place. See Incorporation Table direction 6 for method of incorporation.  In both cases seedling disease, cold weather, excessive moisture, high salt concentrations and drought could weaken crop seedlings and damage could occur from the use of this product. Temporary crop suppression could result.	
1.2 L/ha	1.5 L/ha	1.7 L/ha	Spray 2 - 4 weeks before sowing. Sowing depth should be 1.3 - 2.5 cm. Deeper sowing may result in some stand reduction. See Incorporation Table direction 6 for method of incorporation.  Spray between 4 weeks and just before sowing takes place. See Incorporation Table directions 3, 4 or 5.  Spray between 4 weeks and just before sowing takes place. See Incorporation Table directions 6 or 11.	
3.0 L/ha 2.3 L/ha	3.0 L/ha 2.3 L/ha	3.0 L/ha 2.3 L/ha	Apply to plant cane after emergence to 'out of hand' stage. Apply to ratoon cane immediately after harvest. See Incorporation Table directions 3, 4 or 10.	

SITUATION & CROP	WEEDS CONTROLLED	STATE	
Sunflowers	Annual Ryegrass, Barnyard Grass, Canary Grass, Caltrop (Bullhead/ Yellow Vine), Crab Grass, Mossman River Grass (Innocent Weed).	All States	
Lupins	Pigweed, Redroot ( <i>Amaranthus</i> ), Redshank (Prince Of Wales Feather), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed), Black Pigweed (Old only), <i>Phalaris</i> spp. Fumitory		
	From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass ( <i>Urochloa</i> )		
	Annual Grasses and Broadleaf Weeds	ACT, NSW, Qld, Vic only	
	Capeweed, Turnip, Radish, Doublegee (Spiny Emex) suppression of Annual Ryegrass and Wild Oats	WA only	
	As above plus suppression of Brome Grass		
	Capeweed, Doublegee (Spiny Emex), Wild Radish, Wild Turnip plus suppression of Annual Ryegrass, Wild Oats and Brome Grass		

RATE/ SOIL TYPE		PE	CRITICAL COMMENTS
LIGHT	MED.	HEAVY	
1.2 L/ha 1.5 L/ha 1.7 L/ha		1.7 L/ha	Spray between 4 weeks and just before sowing takes place. See Incorporation Table directions 3, 4 or 5 for method of incorporation.
			Spray between 4 weeks and just before sowing takes place. Refer Incorporation table direction 6 for suitable of incorporation.  WA only: Use higher rate for heavier stubble coverage. Stubble coverage above 40% - 50% ground cover can reduce weed control below acceptable levels. Refer table direction 13 for method of incorporation.
800 mL/ha plus 1.7 kg/ha simazine (900 g/kg)		zine (900 g/kg)	Use a low volume boom applying 50 - 100 litres spray mixture per hectare. Apply to bare moist soil and incorporate to a depth of 5 cm just prior to sowing the crop. Incorporate within 4 hours of application.  DO NOT apply to a ridged soil.
1.25 L/ha plus 560 - 830 g/ha simazine (900 g/kg)			Rate for yellow sands. See Incorporation Table directions 11, 12 or 13.
1.25 L/ha plus 1.1 kg/ha simazine (900g/kg)			Rate for all other soil types. Apply to bare moist soil and incorporate to a depth of 5 cm just prior to sowing.  Incorporation should be made within 4 hours of application.  Applications.  Applications should not be made to ridged or excessively cloddy soil. For simazine to be effective sufficient rainfall (20 - 30 mm) to wet the soil through the weed root zone is necessary within 2 - 3 weeks of application. Results with simazine can be variable if seasonal conditions are dry prior to sowing and lupins are sown into dry or low moisture seed beds.
1.25 L/ha plus 1.1 kg/ha duiron (900 g/kg)			DO NOT use on white or grey sands as severe crop damage may result. Use tank mix of diuron & Treflan* 480 where annual ryegrass is present. Apply at pre-sowing stage. See the Incorporation Table direction 13. For post sowing pre-emergent application ensure seed is adequately covered with soil. See Incorporation Table directions 12 13.

SITUATION & CROP	WEEDS CONTROLLED	STATE
Lupins	Red & White Fumitory, Rough Poppy, Wireweed (Hogweed), Barley Grass, Canary Grass, Annual Ryegrass, Sand Fescue, suppression of Deadnettle, Speedwell, Three Cornered Jack, Yellow Burr Weed, Brome Grass, Cereal Oats, soil surface Wild Oats	SA only
	Above weeds plus Capeweed, Common Fumitory, Geranium, Indian Hedge Mustard, Sheepweed, Shepherd's Purse, Toadrush, Turnips, suppression of Ice Plant, Soursob	
Tobacco	Summer Grass, Crowsfoot Grass, Red Natal Grass, Love Grass, Button Grass, Rhodes Grass, Pigweed	Qld only
	Crowsfoot grass	NSW only
Wheat, Barley, Triticale	Annual Ryegrass, Wireweed (Hogweed), <i>Phalaris</i> spp.	ACT, NSW, Vic, WA only
	Fumitory	WA only
1. Pre-Sowing only	Canary Grass	Vic only
2. Pre-Sowing and Post-Sowing (self-mulching soils)	As above, except for Fumitory	Vic only
Wheat	Annual Ryegrass, Paradoxa Grass (Canary Grass), Wild Oats, Wireweed (Hogweed)	Qld only
Barley		
Wheat, Triticale, Rye	Annual Ryegrass, Red & White Fumitory, <i>Phalaris</i> spp., Wireweed, suppression of Deadnettle, Rough Poppy, Yellow Burr Weed	SA only
Barley	As above for SA plus Sand Fescue and suppression of Brome Grass	

RATE/ SOIL TYPE		PE	CRITICAL COMMENTS	
LIGHT	MED.	HEAVY		
1.25 - 1.7 L /ha	1.25 - 1.7 L /ha	1.25 - 1.7 L /ha	Spray between 4 weeks and just before sowing takes place. See Incorporation Table direction 6.	
1.25 L/ha to 1.	7 L/ha 1.1 - 2.2 (900 g/L)	kg/ha simazine	Use a low volume boom applying 50 - 100 litres spray mixture per hectare. Apply to bare moist soil and incorporate to a depth of 5 cm just prior to sowing the crop. Incorporate within 4 hours of application. Do not apply to a ridged soil.	
800 mL/ha	1.2 L/ha		Apply to soil 3 - 4 weeks prior to transplanting. The longer period to be used for applications made during June & July. Incorporate to a depth of 10 cm.	
		1.2 L/ha	Apply to light sandy soil 14 to 21 days before transplanting. DO NOT incorporate to a depth greater than 6 cm. Apply to loam (medium soil) 14 to 21 days before transplanting. DO NOT incorporate to a depth of greater than 6 cm.	
800 mL/ha	800 mL/ha	800 mL/ha	Apply 1 - 4 weeks before sowing. Sowing depth should be at least 5 cm. Use cover harrows behind combine. Ground should be left flat. DO NOT use pre-sowing on self-mulching soils as damage may occur from wheel tracking and poor control of wild oats. See Incorporation Table direction 6.	
800 mL/ha	800 mL/ha	800 mL/ha	Pre-Sowing: Apply more than 4 weeks before sowing to prevent crop damage. Post-Sowing: Apply within 2 days after sowing to well prepared seedbed. See Incorporation Table direction 6.	
800 mL/ha	800 mL/ha	800 mL/ha	On non self-mulching soils apply 1 - 4 weeks before sowing. Sowing depth should be at least 5 cm. Use cover harrows behind combine. Ground should be left flat. On self-mulching soils, as above except apply more than 4 weeks before sowing to prevent crop damage. See Incorporation Table method 6.	
			Apply to self-mulching and non self-mulching soils from 1 - 4 weeks before sowing. Sowing depth should be at least 5 cm. Use cover harrows behind combine. Ground should be left flat. See Incorporation Table 6.	
			Apply 1 - 4 weeks before sowing. Sowing depth should be at least 5 cm. Use cover harrows behind combine. Ground should be left flat. DO NOT use pre-sowing on self-mulching soils as damage may occur from wheel tracking and poor control of wild	
1.25 L/ha	1.25 L/ha	1.25 L/ha	oats. See Incorporation Table method 6.	

SITUATION & CROP	WEEDS CONTROLLED	STATE
Wheat & Triticale only	Annual Phalaris	ACT, NSW only

RATE/ SOIL TYPE		PΕ	CRITICAL COMMENTS
LIGHT	MED.	HEAVY	
800 mL/ha plus 20 g chlorsulfuron (750 g/kg)		ron (750 g/kg)	If possible, spray and incorporate into the soil in one operation. If this is not possible incorporation should take place within 4 hours of spraying. Delay may cause inferior weed control.

# 2. FIELD CROPS: PRE-SOWING OR INCORPORATED BY SOWING (IBS) (Using Incorporation Table Method 13)

SITUATION & CROP	WEEDS	STATE
Wheat, Barley, Triticale	Annual Ryegrass, Wireweed (Hogweed), <i>Phalaris</i> spp. Fumitory	NSW, SA, Vic, WA only
Chickpeas		WA only

RATE (L/ha)	CRITICAL COMMENT
1.5 L - 2 L	Use higher rate on lighter sandy and sandy loam soils. DO NOT use on heavy soils. Use with knife/blade point sowing equipment. Use higher rate for heavier stubble coverage. Stubble coverage above 40%-50% ground cover can reduce weed control below acceptable levels. See Incorporation Table method 13.
1.25 to 1.7 plus 1.1 kg/ha simazine (900 g/kg)	Incorporate as recommended in Incorporation Table method 13.

#### 3. VEGETABLES, ORCHARDS AND VINEYARDS

CROP	WEEDS CONTROLLED	STATES
Transplants Only Broccoli, Cabbage, Cauliflowers, Tomatoes	Annual Ryegrass, Barnyard Grass, Canary Grass, Caltrop (Bullhead/ Yellow Vine), Crab Grass, Mossman River Grass (Innocent Grass), Pigweed, Redroot ( <i>Amaranthus</i> ), Redshank (Prince of Wales Feather),	All States
Direct Seeded Only Broccoli, Brussels Sprouts, Cabbage		
Cauliflower	Summer Grass, Wild Oats, Winter Grass, Wireweed (Hogweed)	Vic only
Carrots	From seed only: Columbus Grass,	All States
Chicory	Guinea Grass, Johnson Grass, Liverseed Grass ( <i>Urochloa</i> )	Vic only
Green Beans,	(* * * * * * * * * * * * * * * * * * *	All States
Orchards & Vineyards		Qld, SA, Tas, Vic, WA only

RATE/SOIL TYPE		E	CRITICAL COMMENTS	
LIGHT	MED.	HEAVY		
1.2 L/ha	1.7 L/ha	2.3 L/ha	Spray between 4 weeks and just before sowing takes place. See Incorporation Table methods 3, 4 or 5.	
1.2 L/ha	1.5 L/ha	1.7 L/ha		
1.2 L/ha	1.7 L/ha	2.3 L/ha	Apply to new planting during pre-plant cultivation. Apply to established crops in spring after weeds and green manure crop has been ploughed into ground. See Incorporation Table methods 8 or 9.	

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

WITHHOLDING PERIODS: NOT REQUIRED WHEN USED AS DIRECTED.

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#### GENERAL INSTRUCTIONS

THIS PRODUCT MUST BE INCORPORATED INTO THE SOIL WITHIN 4 HOURS OF APPLICATION, WHERE THE CROP IS SOWN WITH MINIMUM TILLAGE SOWING EQUIPMENT (FITTED WITH KNIFE POINTS OR BLADES LESS THAN 12MM WIDE, USUALLY WITH PRESS WHEELS) WHERE APPLICATION MAY OCCUR UP TO 24 HOURS BEFORE INCORPORATION BY THE SOWING PROCESS.

#### INCORPORATION TABLE

- 1. Prior to furrowing out: 2 workings at an angle required using Offset or Tandem disc harrows.
- After furrowing out: 2 workings required using Go-Devil discs or Lilliston cultivators set at 10 cm depth.
- 3. Rotary Hoe: 1 working required at 5 7.5 cm depth. Sugar Cane: 7.5 13 cm depth.
- Offset or Tandem Disc Harrows: (preferably with spiked harrows in tandem) 2 workings at an angle required at 7.5 - 15 cm depth at 6.5 - 10 km per hour.
- Heavy Diamond or Stump Jump Harrow: (weighted 20 30 kg per section) at 10 13 km/hr speed. Then cross work with offset or tandem disc harrows set to 7.5 - 15cm depth at speed 6.5 - 10 km per hour.
- Weighted Heavy Diamond or Stump Jump Harrow: (weighted 20 30 kg per section) at 10 13 km/hr speed. Cross work with combine at 5 - 7.5 cm depth at speed 10 - 13 km per hour.
- 7. Disc Ratoon Cultivator: 2 workings needed with discs and cultivator set at 7.5 13 cm depth.
- Offset or Tandem Disc Harrows: set at 7.5 15 cm depth. A second discing is required working
  opposite direction with discs set to throw treated soil into tree or vine row.
- 9. Rotary Hoe: 1 working needed at 5 10 cm depth.
- 10. Offset Discs (Bumpers): 2 workings needed at depth of 7.5 13 cm.
- 11. Incorporation by sowing (IBS) on suitably prepared seed bed with heavy diamond harrows trailing or as a separate operation.
- 12. Post-sowing/Pre-emergence: Use heavy diamond harrows cross working at right angles to the direction of sowing. Do not attempt this method of incorporation on poorly prepared, clumpy or cloddy soils.
- 13. Incorporation by sowing (IBS) with knife or blade points. Use press wheels to avoid dragging treated soil back into the seed furrow. Maintain slow to moderate speed to ensure that soil throw is not into adjacent furrows. Note: (a) Knife or blade point systems can result in poor weed control in the seed furrow as chemical displacement from this zone occurs. Stubble coverage above 40% 50% ground cover can reduce weed control below acceptable levels. (b) A knife or blade point of 12mm or less, has no wings, inverted T or blade, and is generally placed on a minimum 8 inch tyne spacing.

#### MIXING

This product is an emulsifiable concentrate which mixes readily with water. Add the recommended amount to the spray tank during filling operation and apply 70 - 450 L of water per hectare (broadcast basis) dependent on soil type. Under hot conditions or where possible spray and incorporate into the soil in one operation. Delay may cause inferior weed control. Use properly calibrated standard low pressure (170 - 340 kilopascal) boom type sprayer with fan tips.

Ensure adequate agitation is continued throughout the operation. Leaving the prepared spray mixture for long periods of time without agitation is not recommended.

#### CONDITIONS FOR BEST RESULTS

This product must be thoroughly incorporated as recommended. Soil should be well worked and free of weeds at time of application. Product effectiveness may be reduced by inadequate incorporation, high organic matter, excess clods, crop or trash residues, stones or other foreign matter and in areas of unnaturally high weed seed population such as header tracks or livestock rest areas. Treflan 480 is volatile and disappears from exposed surfaces. Loss is hastened by high temperatures, winds or warm moist soil.

#### INTEGRATED WEED MANAGEMENT

The use of Integrated Weed Management (IWM) techniques in conjunction with Treflan 480 is always recommended. Agronomic practices that reduce the weed seed bank in the soil prior to the use of Treflan 480 will result in higher weed control levels from Treflan 480. Failure to use Agronomic and IWM practices that reduce the weed seed bank in the soil will result in higher weed seed populations. Paddocks with excessively high weed seed banks may have sufficient weed numbers surviving such that final weed control may be considered below a commercially acceptable level and additional herbicide treatments may be necessary. The use of IWM techniques will also reduce the potential for the development or survival of Group D herbicide resistance weed biotypes.

#### WILD OATS

Germinating wild oat seeds lying on soil surface will be controlled. Therefore, specific oat control is only possible with shallow cultivation. Poor control will occur on self-mulching soils and all soil types where deep cultivation is practised.

#### COMPATIBILITY

This product may be mixed in the spray tank with:

Herbicides: Broadstrike™, Spinnaker®, chlorsulfuron, cyanazine, diuron, metribuzin, paraquat, simazine, triasulfuron and triallate.

Insecticides: Lorsban™ 500 EC. endosulfan.

#### NOTE:

- As formulations of other manufacturers' products are beyond the control of Dow AgroSciences all
  mixtures should be tested on a small scale before mixing in the spray tank.
- 2. Tank mixing instructions:

Fill the spray tank 1/4 full of water and agitate. Add wettable powders and water dispersible granules first. Agitate until these are uniformly dispersed, meanwhile adding water until the tank is 90% full. Add suspension concentrates (flowables) then soluble concentrates. Emulsifiable concentrates go in last. Top off the tank with water and continue agitation until all the ingredients are properly mixed. Observe any mixing sequence instructions mentioned on the tank mix products.

#### **EQUIPMENT MAINTENANCE AND USAGE**

Keep the spray unit for herbicides only if possible. Otherwise, spray tanks, pumps, lines and nozzles should be thoroughly rinsed several times with clean water following application. An equipment cleaning product such as Spraymate® Tank & Equipment Cleaner is suitable for this purpose and will also remove Treflan 480 stains.

#### RESISTANT WEEDS WARNING



Treflan 480 Selective Herbicide is a member of the dinitronilines group of herbicides. The product has the inhibitors of tubulin formation mode of action. For weed resistance management, Treflan 480 is a Group D herbicide

Some naturally-occurring weed biotypes resistant to Treflan 480 and other Group D 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 Treflan 480 or other Group D herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Dow AgroSciences accepts no liability for any losses that may result from the failure of Treflan 480 to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or local Dow AgroSciences representative.

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

DO NOT use in high winds.

DO NOT exceed rate specified, to avoid crop damage.

DO NOT plant sensitive grasses such as oats, sorghum, millets, *Phalaris* spp., ryegrass or wheat for 12 months following the use of this product, except where wheat follows wheat or other winter crops.

DO NOT plant oil seed poppies when a detectable residue of trifluralin is present in the soil. Levels as low as 0.02 ppm may interact with other unfavourable factors (moisture, stress, disease etc.) to reduce poppy growth and vigour.

DO NOT apply to orchards and vineyards after first flush of growth or when residues can lodge on or in fruit. Reduced germination of wheat and barley may occur due to a combination of following circumstances and the use of this product:

- · Short coleoptile cultivars
- . Use of seed dressings (except Vitavax®)
- · Shallow or uneven seedling depth

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#### Drift Warning

DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.

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

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

#### STORAGE AND DISPOSAL

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.

Do not store near food, feedstuffs, fertilisers or seed.

The method of disposal of the container depends on the container type. Read the STORAGE and DISPOSAL instructions on the label that is attached to the container.

#### SPILL AND LEAK MANAGEMENT

Do not touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and foothwar. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains. Small spills/leaks: Absorb with material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Dam the area of large spills and report them to Dow AgroSciences Emergency Services at 1-800 033 882.

#### SAFFTY DIRECTIONS

- Harmful if swallowed.
- · Will irritate the eves and skin.
- · Repeated exposure may cause allergic disorders.
- · Sensitive workers should use protective clothing.
- · Avoid contact with eyes and skin.
- · Do not inhale spray mist.
- When opening the container and using the prepared spray, wear cotton overalls buttoned to the neck
  and wrist and a washable hat and elbow length PVC gloves and face shield or goggles.
- 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 or goggles and contaminated clothing.

#### FIRST AID

If poisoning occurs contact a Doctor or Poisons Information Centre. Phone: *Australia* 13 11 26. If swallowed DO NOT induce vomiting. Give a glass of water.

#### MATERIAL SAFETY DATA SHEET

A Material Safety Data Sheet for **TREFLAN 480 HERBICIDE** is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.dowagrosciences.com.au

#### NOTICE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions for use. No warranty of merchantability or fitness for a particular purpose express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by Dow AgroSciences, or under abnormal conditions.

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APVMA Approval No. 61902/1009



PACKAGING ARTWORK: Treflan 480 - Multi Booklet			
APVMA APPROVAL #: 61902/1009			
	FINAL APPROVAL	DATE	
Marketing			
Regulatory Affairs			



Artwork is at 100%

Workhouse job #: DE15964 Artwork revision date: 18/9/09



# THE WORKHOUSE VISUAL COMMUNICATIONS

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